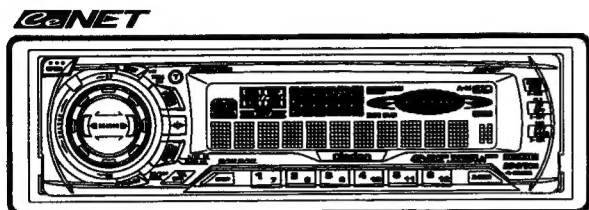


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# Service Manual



(ARX8570Rz)

RDS-EON/FM/MW/LW Radio  
Cassette Combination  
with MD/CD Changer/TV/DAB  
Control

Model **ARX8570Rz**  
(PE-1638E-A)

Model **ARX8570RWz**  
(PE-1638E-B / Grained panel)

## SPECIFICATIONS

### Radio section

Tuning system: PLL synthesizer tuner  
Receiving frequencies: FM: 87.5 to 108MHz  
(0.05MHz steps)  
MW: 531 to 1602kHz(9kHz steps)  
LW: 153 to 279kHz(3kHz steps)

### Tape deck section

Cassette type: Compact audio cassette  
Wow & flutter: 0.06%(WRMS)  
Frequency response: 30Hz to 20kHz(Metal)  
Signal to noise ratio: Metal 58dB  
Dolby B NR 67dB  
Dolby C NR 74dB

### General

Max. power output: 4×45W  
Power supply voltage: 14.4V DC(10.8 to 15.6V allowable)  
negative ground  
Power consumption: Less than 15A  
Speaker impedance: 4Ω(4Ω to 8Ω allowable)  
Auto antenna rated current:  
500mA or less  
Dimensions(mm): Main unit  
178(W)×50(H)×155(D)  
Remote control unit  
44(W)×110(H)×27(D)  
Weight: Main unit 1.7kg  
Remote control unit  
30g(including battery)

- ※ Dolby noise reduction manufactured under license from  
Dolby Laboratories Licensing Corporation  
Dolby and the double-D symbol are trademarks of Dolby  
Laboratories Licensing Corporation.
- ※ Specifications and design are subject to change with-  
out notice for further improvement.

## COMPONENTS

### PE-1638E-A / PE-1638E-B

Main unit	-----	1
Remote control	RCB-130-700	1
Battery(SUM-3)	-----	2
Mounting bracket	300-7745-00	1
DCP case	335-6035-02	1
Outer escutcheon(PE-1638E-A)	370-5774-00	1
Outer escutcheon(PE-1638E-B)	370-5774-01	1
Parts bag	-----	
Removal tool	331-2548-00	2
Spacer	345-3653-01	1
Screw	716-0726-01	1
A-lead	850-6681-00	1

## ■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

### 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

### 2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

### 3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

### 6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

### 7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

## ■ NOTE

- ※ We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

## ■ NOTES OF ISO CONNECTOR

1. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram. (Figure 1)

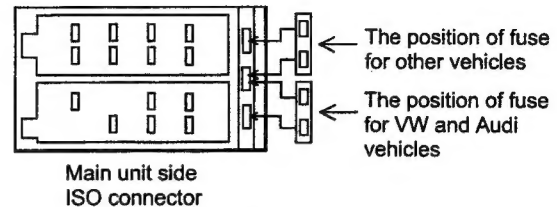


Figure 1

2. The lead include with the unit must be connected to the specified position of the vehicle's ISO connector in order to use the "triggered audio mute for cellular telephones" function. (Figure 2)

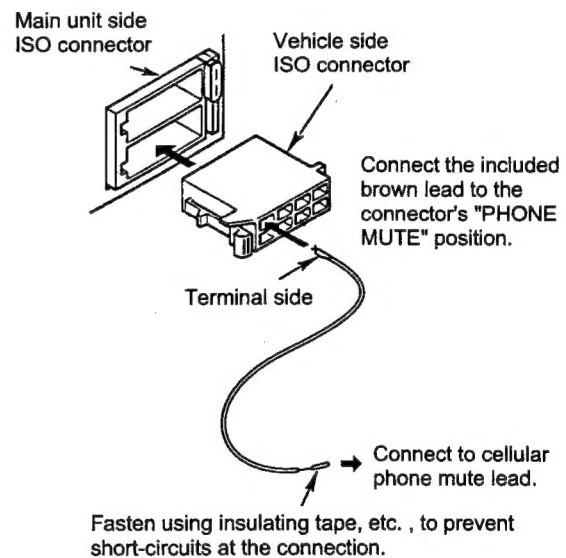


Figure 2

## ADJUSTMENT

Item	Procedure	Measuring instrument
S-meter	<ol style="list-style-type: none"> <li>1. Input the 98.1MHz/30dB<math>\mu</math> (400Hz-MOD 100%) signal.</li> <li>2. Turn on the power switch and press the ENT button and CH6 button at the same time for about 2 seconds.(TEST MODE)</li> <li>3. Adjust the reading of LCD indicator to [30---00] (3.0V<math>\pm</math>0.2V) by VR of tuner pack.</li> </ol>	SG
Dolby level	<ol style="list-style-type: none"> <li>1. Playback a Dolby level test tape(400Hz,200nWb/m) and connect the Milli-volt meter to TP101(L)/TP102(R).</li> <li>2. Adjust VR101(L)/VR102(R) to obtain an output of TP101(L)/TP102(R) is 388mV <math>\pm</math>1dB.(Dolby SW:off)</li> </ol>	Dolby test tape Milli-volt meter
Azimuth adjustment	<ol style="list-style-type: none"> <li>1. Playback a azimuth test tape(10kHz, -10VU) and turn each azimuth-adjusting screw to make each FOW &amp; REV Maximum.</li> <li>2. After adjustment,make adhesion with bond.</li> </ol>	Azimuth test tape Milli-volt meter
Tape speed	<ol style="list-style-type: none"> <li>1. Playback a Wow &amp; flutter test tape(3kHz, -10VU) and connect the frequency counter to TP101(L) or TP102(R).</li> <li>2. Adjust Speed VR of the motor to obtain an output of TP101(L),TP102(R) is 3000Hz<math>\pm</math>45Hz.</li> </ol>	Wow & flutter test tape Frequency counter

## ERROR DISPLAYS

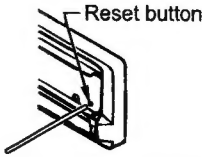
If an error occurs, one of the following displays is displayed.

Take the measures described below to eliminate the problem.

	Error display	Cause	Measure
Tape	ERROR 1	Tape cannot be played due to defective tape such as cut tape.	Eject the tape then replace it with a new one.
	ERROR 2	Tape is caught and cannot be played.	Remove the caught or wound tape.
	ERROR 4	Tape mode cannot be detected.	This is a failure of tape mechanism.
	ERROR 8	Tape is caught and cannot be ejected.	Eliminate the reason for which the tape is caught.
CD CHANGER	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
MD CHANGER	ERROR H	Displayed when the temperature in the MD changer is too high and playback has been stopped automatically.	Lower the surrounding temperature and wait for a while to cool off MD changer.
	ERROR 2	An MD inside the MD changer is not loaded.	This is a failure of MD changer's mechanism.
	ERROR 3	An MD inside the MD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	An MD inside the MD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
		Displayed when a non-recorded MD is loaded in the MD changer.	Load a pre-recorded MD in the MD changer.

If an error display other than the ones described above appears, press the reset button.

## TROUBLESHOOTING

Problem	Cause	Measure
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	<p>Turn off the power, then press the OPEN button and remove the DCP.</p> <p>Press the reset button for about 2 seconds with a thin rod.</p> 

# EXPLANATION OF IC

■ M30620MC-336GP 052-3347-00 RDS Tuner / Cassette Controller (Ce-NET)

1. Outward Form : 100 pins QFP

2. Function : Cassette mechanism control, PLL IC control, Electric volume IC control, Ce-NET

## 3. Terminal Description

pin 1 : N.C. : IN : Not in use.  
pin 2 : N.C. : IN : Not in use.  
pin 3 : APC SENSE : O : Sensitivity control signal output.  
"L"= Play, "H"= FF/REW  
pin 4 : N.C. : IN : Not in use.  
pin 5 : RDS CLK : IN : Clock pulse input from RDS decoder.  
pin 6 : BYTE : IN : Connect to ground.  
pin 7 : CNVSS : IN : Connect to ground.  
pin 8 : SUB CK IN : IN : Crystal connection. (32.768kHz)  
pin 9 : SUB CK OUT : O : Crystal connection. (32.768kHz)  
pin 10 : RESET\_ : IN : Reset signal input. Negative logic.  
pin 11 : X OUT : O : Crystal connection. (10MHz)  
pin 12 : VSS : - : Ground.  
pin 13 : X IN : IN : Crystal connection. (10MHz)  
pin 14 : VCC : - : Positive supply voltage.  
pin 15 : N.C. : IN : Not in use.  
pin 16 : ACC DET : IN : ACC ON signal input.  
pin 17 : B/U DET\_ : IN : Backup voltage OFF signal input.  
"L"=Backup OFF  
pin 18 : KEY INT\_ : IN : Interrupt signal input of FUNC/EJECT key and DCP take off switch.  
pin 19 : 27pinCONNECT : IN : Connect to pin 27.  
pin 20 : N.C. : IN : Not in use.  
pin 21 : N.C. : IN : Not in use.  
pin 22 : N.C. : O : Not in use.  
pin 23 : DISP RESET : O : Display IC reset signal output.  
pin 24 : PULSE DIMM : O : Pulse dimmer / Back light LED ON signal output.  
pin 25 : N.C. : IN : Not in use.  
pin 26 : N.C. : O : Not in use.  
pin 27 : IE BUS RX : IN : IE Bus communication line.  
pin 28 : IE BUS TX : O : IE Bus communication line.  
pin 29 : N.C. : O : Not in use.  
pin 30 : N.C. : IN : Not in use.  
pin 31 : INITIAL OUT : O : Memory clear signal output to EEPROM.  
pin 32 : PLL CE : O : PLL chip enable signal output.  
pin 33 : PLL DO : O : PLL serial data output.  
pin 34 : PLL DI : IN : PLL serial data input.  
pin 35 : PLL SCK : O : PLL serial clock output.  
pin 36 : FM STEREO\_ : IN : FM stereo detection signal input. Negative logic.  
pin 37 : NON FADER 1 : O : Non fader volume control signal output. Ref. Table 1.  
pin 38 : NON FADER 2 : O : Non fader volume control signal output. Ref. Table 1.  
pin 39 : NON FADER 3 : O : Non fader volume control signal output. Ref. Table 1.  
pin 40 : N.C. : IN : Not in use.  
pin 41 : N.C. : IN : Not in use.  
pin 42 : VOLUME CLK : O : Serial clock output to Electric volume.  
pin 43 : VOLUME DO : O : Serial data output to Electric volume.  
pin 44 : N.C. : O : Not in use.  
pin 45 : CATS LED : O : CATS LED control signal output.  
pin 46 : DOLBY ON\_ : O : Dolby ON signal output. Negative logic.  
pin 47 : DOLBY B/C : O : "L"= Dolby C, "H"=Dolby B.  
pin 48 : POWER M 1 : O : Power motor control signal output. Ref. Table 2.  
pin 49 : POWER M 2 : O : Power motor control signal output. Ref. Table 2.  
pin 50 : FWD/REV : O : "L"= FWD, "H"= REV.  
pin 51 : N.C. : O : Not in use.  
pin 52 : APC DETECT\_ : IN : "H"= Interval.  
pin 53 : TAPE IN : IN : "H"=Tape loading start.  
pin 54 : BIT 2 : IN : Mechanism mode switch signal input. Ref. Table 3.  
pin 55 : BIT 1 : IN : Mechanism mode switch signal input. Ref. Table 3.  
pin 56 : BIT 3 : IN : Mechanism mode switch signal input. Ref. Table 3.  
pin 57 : N.C. : O : Not in use.  
pin 58 : REEL PULSE : IN : Reel pulse input terminal.  
pin 59 : MAIN MOTOR : O : Main motor ON signal output.  
pin 60 : VCC : - : Positive supply voltage.  
pin 61 : MECH ON : O : Power supply control signal output for the tape mechanism. "H"= ON.

pin 62 : VSS : - : Ground.  
pin 63 : N.C. : IN : Not in use.  
pin 64 : N.C. : IN : Not in use.  
pin 65 : N.C. : IN : Not in use.  
pin 66 : N.C. : IN : Not in use.  
pin 67 : N.C. : IN : Not in use.  
pin 68 : N.C. : IN : Not in use.  
pin 69 : NAVI MUTE : O : Mute signal output for the audio signal of Navigation.  
pin 70 : N.C. : IN : Not in use.  
pin 71 : 5V REM : O : 5V power supply ON signal output for Micro computer.  
pin 72 : KEY ILL REM : O : Key illumination ON signal output.  
pin 73 : AMP MUTE : O : Mute signal output to Power Amplifier.  
pin 74 : SYS MUTE\_ : O : System mute signal output. Negative logic.  
pin 75 : LINE MUTE : O : Mute signal output for Audio signal of Ce-NET.  
pin 76 : BUS IN/OUT : O : Ce-NET audio bus select signal output.  
pin 77 : SYS ACC : O : ACC detect signal output to slave micro computer.  
pin 78 : AMP REM DET\_ : IN : Output "L" when the remote line is shorted.  
pin 79 : AMP REM OUT : O : Amplifier ON signal output terminal.  
pin 80 : SOFT MUTE : O : "H"= Soft mute ON.  
pin 81 : PHONE INT : IN : Telephone interrupt signal input.  
pin 82 : N.C. : IN : Not in use.  
pin 83 : N.C. : IN : Not in use.  
pin 84 : FM SD : IN : FM station detect signal input.  
pin 85 : AM SD : IN : AM station detect signal input.  
pin 86 : RDS DATA : IN : RDS data input.  
pin 87 : RDS DISCG : O : Discharge signal output of NOISE 1.  
pin 88 : RDS MUTE : O : RDS mute signal output.  
pin 89 : S METER : IN : RDS FM S meter signal input.  
pin 90 : NOISE 1 : IN : RDS noise level detector input.  
pin 91 : N.C. : IN : Not in use.  
pin 92 : ILL DET\_ : IN : Illumination ON signal input. Negative logic.  
pin 93 : DIMMER IN : IN : Voltage detector input terminal for Automatic Dimmer.  
pin 94 : A VSS : - : Ground terminal for A/D converter.  
pin 95 : KEY A/D : IN : Input terminal of A/D converter for Key judgment. Ref. Table 4.  
pin 96 : VREF : IN : Reference voltage for A/D converter.  
pin 97 : A VCC : - : Positive supply voltage for A/D converter.  
pin 98 : N.C. : IN : Not in use.  
pin 99 : N.C. : O : Not in use.  
pin100 : N.C. : IN : Not in use.

Table 1. Non fader volume control signal output

ATT	N-F 1 (pin37)	N-F 2 (pin38)	N-F 3 (pin39)
0	L	L	L
1	L	L	H
2	L	H	L
3	L	H	H
4	H	L	L
5	H	L	H
6	H	H	L
7	H	H	H

Table 2. Power motor control signal output

Mechanism Mode	Power M 1 (pin48)	Power M 2 (pin49)
Loading head shift forward	H	L
Eject head go back	L	H
Brake	H	H
Stop	L	L

Table 3. Mechanism mode switch signal input

Mechanism Mode	bit 1 (pin55)	bit 2 (pin54)	bit 3 (pin56)
Eject	H	H	H
Loading	H	H	L
Stop	L	H	L
FWD FF (REV REW)	L	L	H
FWD REW (REV FF)	H	L	L
FWD Play	H	L	H
REV Play	L	H	H

Table 4. A/D converter for Key judgment(pin95)

Judgment	A/D steps		
Eject key	0/256	to	25/256
Function key	26/256	to	51/256
With DCP (type A/B)	205/256	to	221/256
With DCP (Deck)	222/256	to	238/256
without DCP	239/256	to	256/256

### ■ M30622MC-193GP 052-7040-00 CD Tuner Display and Keys (Ce-NET)

#### 1. Outward Form : 100 pins QFP

#### 2. Function : LCD display control, Key scan, Ce-NET communication

#### 3. Terminal Description

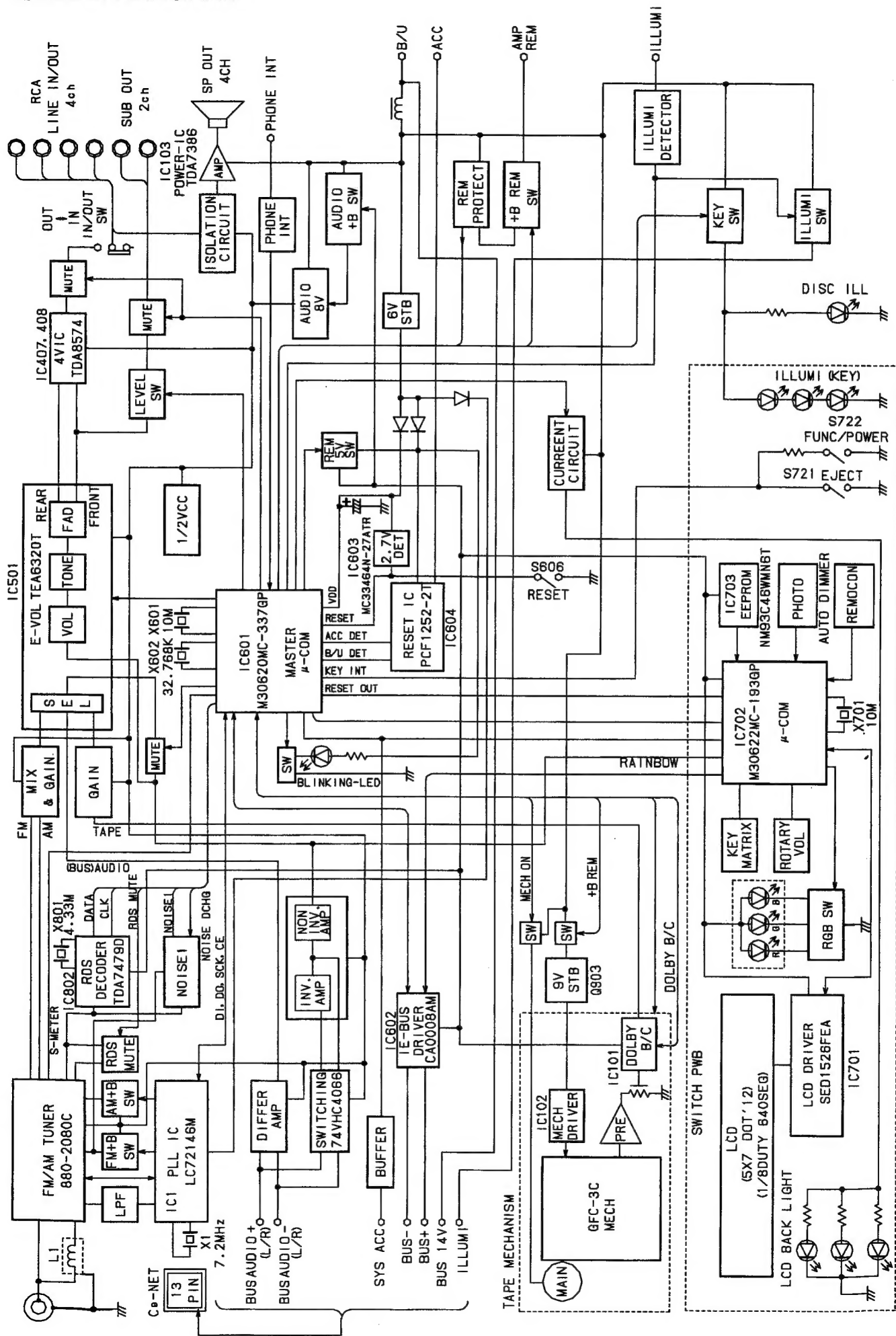
pin 1 : N.C.	: IN : Not in use.
pin 2 : CONTRAST	: O : LCD Contrast control signal output. (Analog signal)
pin 3 : N.C.	: O : Not in use.
pin 4 : N.C.	: IN : Not in use.
pin 5 : REMOCON	: IN : Remote controller signal input terminal.
pin 6 : BYTE	: IN : Input "L" at single mode operation.
pin 7 : CNVSS	: IN : Input "L" at single mode operation.
pin 8 : INITIAL 1	: IN : Destination setting terminal. Ref. Table 1.
pin 9 : INITIAL 2	: IN : Destination setting terminal. Ref. Table 1.
pin 10 : RESET_	: IN : System reset input. Negative logic.
pin 11 : X OUT	: O : Crystal connection.
pin 12 : VSS	: - : Ground.
pin 13 : X IN	: IN : Crystal connection.
pin 14 : VCC	: - : Positive supply voltage.
pin 15 : N.C.	: IN : Not in use.
pin 16 : SYS ACC IN	: IN : ACC ON signal input.
pin 17 : N.C.	: IN : Not in use.
pin 18 : N.C.	: IN : Not in use.
pin 19 : 27pinCONNECT	: IN : Connect to 27pin.
pin 20 : LCD RESET	: O : LCD driver reset signal output.
pin 21 : INITIAL IN	: IN : EEPROM clear signal input.
pin 22 : N.C.	: IN : Not in use.
pin 23 : N.C.	: IN : Not in use.
pin 24 : N.C.	: IN : Not in use.
pin 25 : N.C.	: IN : Not in use.
pin 26 : N.C.	: IN : Not in use.
pin 27 : IE BUS RX	: IN : IE Bus communication line.
pin 28 : IE BUS TX	: O : IE Bus communication line.
pin 29 : N.C.	: IN : Not in use.
pin 30 : N.C.	: IN : Not in use.
pin 31 : N.C.	: IN : Not in use.
pin 32 : N.C.	: IN : Not in use.
pin 33 : PROM DO	: O : EEPROM Data output.
pin 34 : PROM DI	: IN : EEPROM Data input.
pin 35 : PROM SCK	: O : EEPROM Clock output.
pin 36 : PROM CS	: O : EEPROM Chip enable output.
pin 37 : N.C.	: IN : Not in use.
pin 38 : N.C.	: IN : Not in use.
pin 39 : N.C.	: IN : Not in use.
pin 40 : N.C.	: IN : Not in use.
pin 41 : N.C.	: IN : Not in use.
pin 42 : N.C.	: IN : Not in use.
pin 43 : N.C.	: IN : Not in use.
pin 44 : N.C.	: IN : Not in use.
pin 45 : N.C.	: IN : Not in use.
pin 46 : N.C.	: IN : Not in use.
pin 47 : N.C.	: IN : Not in use.
pin 48 : N.C.	: IN : Not in use.
pin 49 : N.C.	: IN : Not in use.
pin 50 : N.C.	: IN : Not in use.
pin 51 : N.C.	: IN : Not in use.
pin 52 : LED RED	: O : Rainbow LED control output.
pin 53 : LED GREEN	: O : Rainbow LED control output.
pin 54 : LED BLUE	: O : Rainbow LED control output.
pin 55 : N.C.	: IN : Not in use.
pin 56 : LCD WR_	: O : Write command output to LCD driver. Negative logic.
pin 57 : LCD RD_	: O : Read command output to LCD driver. Negative logic.
pin 58 : LCD CS 1_	: O : Chip enable signal output to LCD driver. Negative logic.
pin 59 : LCD AO	: O : Address/Data select signal output to LCD driver.

pin 60 : VCC	: - : Positive supply voltage.
pin 61 : N.C.	: IN : Not in use.
pin 62 : VSS	: - : Ground.
pin 63 : D7	: O : Data/Address output to LCD driver. Negative logic.
pin 64 : D6	: O : Data/Address output to LCD driver. Negative logic.
pin 65 : D5	: - : Data/Address output to LCD driver. Negative logic.
pin 66 : D4	: O : Data/Address output to LCD driver. Negative logic.
pin 67 : D3	: O : Data/Address output to LCD driver. Negative logic.
pin 68 : D2	: O : Data/Address output to LCD driver. Negative logic.
pin 69 : D1	: O : Data/Address output to LCD driver. Negative logic.
pin 70 : D0	: O : Data/Address output to LCD driver. Negative logic.
pin 71 : N.C.	: IN : Not in use.
pin 72 : N.C.	: IN : Not in use.
pin 73 : N.C.	: IN : Not in use.
pin 74 : N.C.	: IN : Not in use.
pin 75 : N.C.	: IN : Not in use.
pin 76 : N.C.	: IN : Not in use.
pin 77 : JOG CCW	: IN : Jog key signal input.
pin 78 : JOG CW	: IN : Jog key signal input.
pin 79 : N.C.	: IN : Not in use.
pin 80 : N.C.	: IN : Not in use.
pin 81 : KO 5	: O : Key scan output terminal.
pin 82 : KO 4	: O : Key scan output terminal.
pin 83 : KO 3	: O : Key scan output terminal.
pin 84 : KO 2	: O : Key scan output terminal.
pin 85 : KO 1	: O : Key scan output terminal.
pin 86 : KO 0	: O : Key scan output terminal.
pin 87 : KI 3	: IN : Key scan input terminal.
pin 88 : KI 2	: IN : Key scan input terminal.
pin 89 : KI 1	: IN : Key scan input terminal.
pin 90 : KI 0	: IN : Key scan input terminal.
pin 91 : N.C.	: IN : Not in use.
pin 92 : RAINBOW IN	: IN : Audio signal input terminal of built-in A/D converter, for the rainbow LED.
pin 93 : TEMP DET	: IN : Temperature signal input of built-in A/D converter.
pin 94 : A VSS	: - : Ground terminal for built-in A/D converter.
pin 95 : N.C.	: IN : Not in use.
pin 96 : VREF	: IN : Reference voltage terminal for built-in A/D converter.
pin 97 : AVCC	: - : Positive supply voltage terminal for built-in A/D converter.
pin 98 : N.C.	: IN : Not in use.
pin 99 : N.C.	: IN : Not in use.
pin 100 : N.C.	: IN : Not in use.

Table 1. Destination setting

	U.S.A.	Other	Japan	Europe
INITIAL 1 ( pin 8 )	H	L	H	L
INITIAL 2 ( pin 9 )	L	L	H	H

## ■ BLOCK DIAGRAM

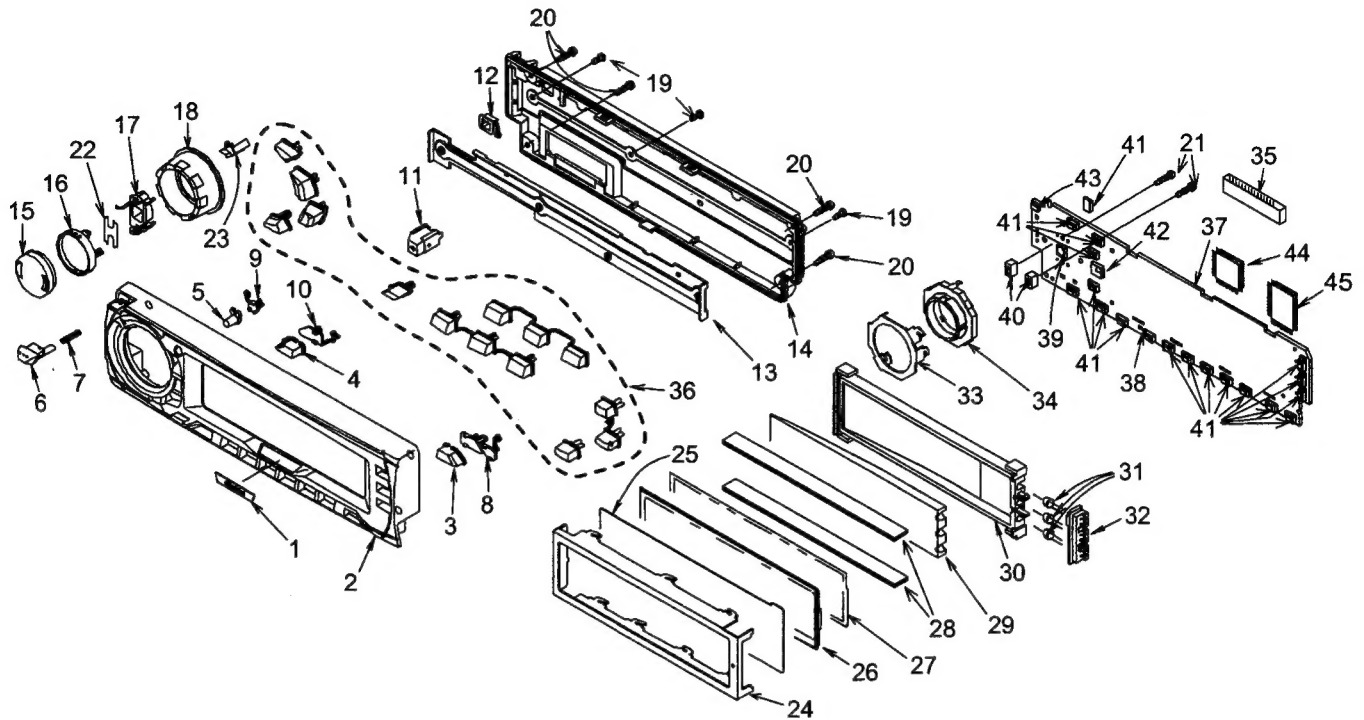


**ARX8570Rz**  
**ARX8570RWz**



# EXPLODED VIEW • PARTS LIST

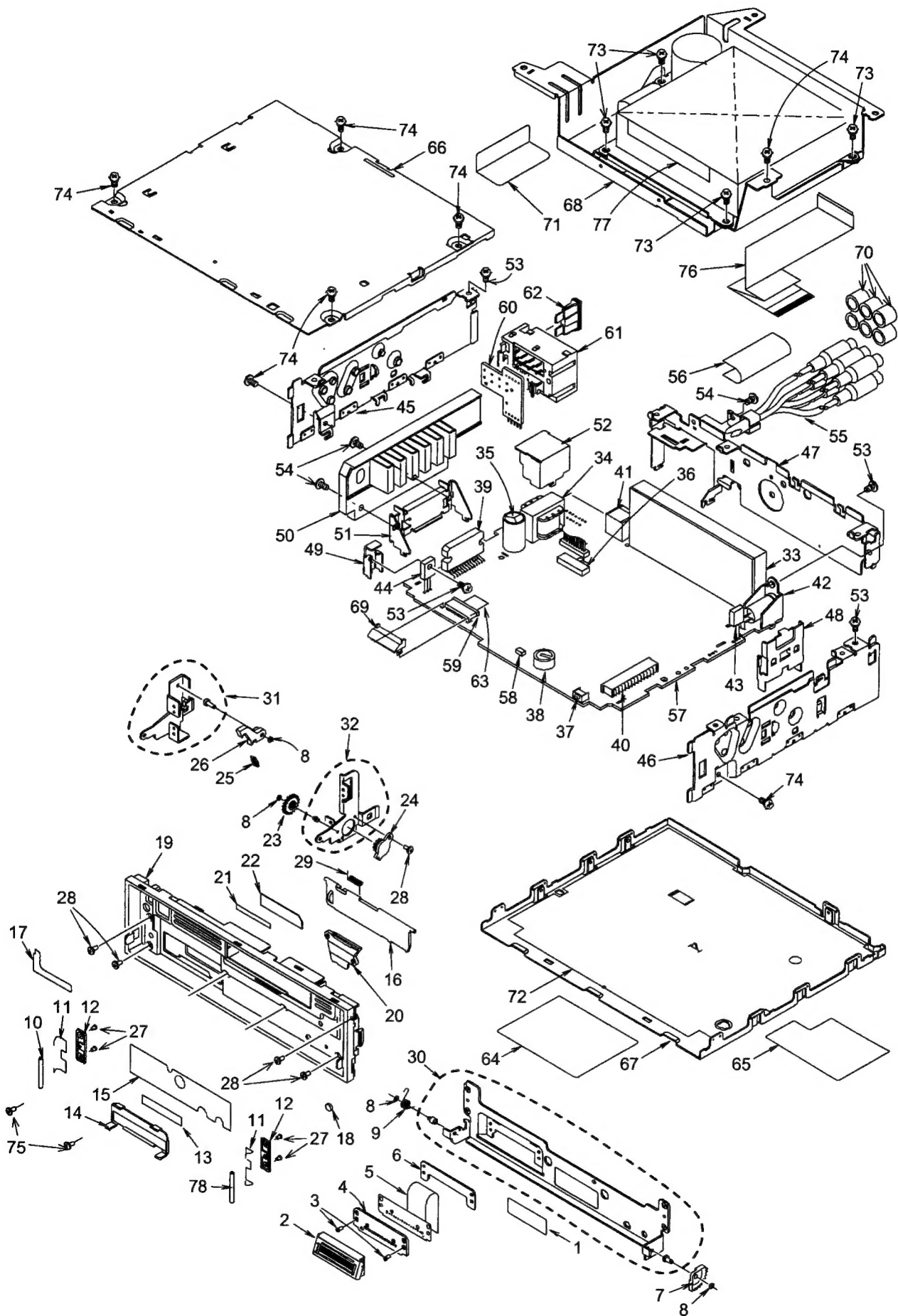
Esccheon section



NO.	PART NO.	DESCRIPTION	Q'TY
1	378-0515-00	BADGE	1
2	370-5770-13 370-5770-14	ESCTCHEON (ARX8570Rz) ESCTCHEON (ARX8570RWz)	1
3	382-5145-00	BUTTON (Z-EHCR)	1
4	382-5150-00	BUTTON (DISP)	1
5	382-5155-00	BUTTON (TITLE)	1
6	382-5152-00	BUTTON (OPEN)	1
7	750-3339-10	SPRING(OPEN)	1
8	335-5832-00	BUTTON HOLDER (Z-EHCR)	1
9	335-5834-00	BUTTON HOLDER (TITLE)	1
10	335-5835-00	BUTTON HOLDER (DISP)	1
11	335-5833-00	IR FILTER	1
12	382-5172-00	BUTTON (EJECT)	1
13	331-2554-00	REAR-COVER-PLATE	1
14	335-5860-00	REAR COVER	1
15	382-5159-00	BUTTON (SRCH)	1
16	335-5841-00	BUTTON HOLDER (SRCH)	1
17	382-5842-00	BASE PLATE (SRCH)	1
18	380-5437-00	JOG DIAL	1
19	738-2035-17	PRECISION SCREW	3
20	716-0872-12	PAD SCREW (M1.7×8BLK)	4
21	716-0872-01	PAD SCREW (M1.7×6)	2
22	347-5951-10	REFLECTOR (SRCH)	1
23	335-5836-00	IR FILTER	1

NO.	PART NO.	DESCRIPTION	Q'TY
24	331-2522-00	LCD COVER	1
25	373-0908-10	DIAL COVER	1
26	379-1133-51	INDICATOR	1
27	347-5911-10	CCS FILM	1
28	345-8261-10	RUBBER CONNECTOR	2
29	335-5850-00	ILLUMI PLATE	1
30	335-5851-00	LCD HOLDER	1
31	001-7030-00	DIODE (NSPB310A)	3
32	335-5852-00	LED HOLDER	1
33	331-2538-00	JOG-SW-HOLDER	1
34	013-8001-00	JOG ROTARY SWITCH	1
35	076-0535-01	PLUG	1
36	947-0489-01	BUTTON ASSY	1
37	039-1325-01	SWITCH PWB (WITHOUT COMPONENT)	1
38	001-7011-02	DIODE (CL-150YG-CD)	1
39	001-7039-00	DIODE (NSCM310A)	1
40	013-6302-50	SWITCH	2
41	013-6504-00	LUMI SWITCH	19
42	060-4008-00	IR-RECEIVER	1
43	060-4011-80	PHOTO TRANSISTOR	1
44	051-9400-38	IC (M93C46-WMN6T)	1
45	052-7040-00	IC (M30622MC-193GP)	1

# Main section

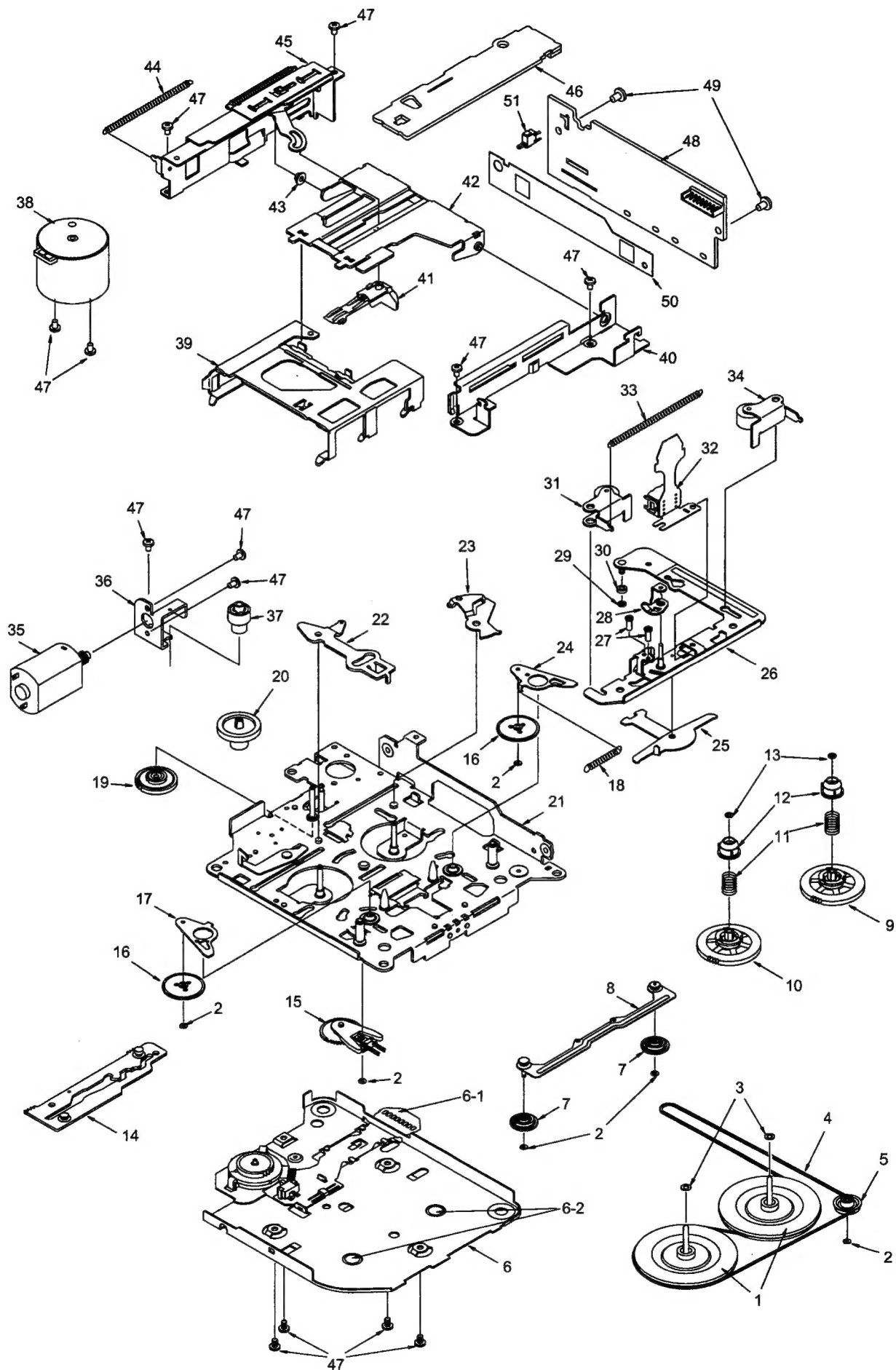




NO.	PART NO.	DESCRIPTION	QTY
1	291-0078-00	STICKER	1
2	074-1145-01	OUTLET SOCKET	1
3	781-1735-00	PRECISION SCREW	2
4	039-1306-00	DCP PWB (WITHOUT COMPONENT)	1
5	039-1328-01	FPC (WITHOUT COMPONENT)	1
6	347-5935-10	SPACER	1
7	613-0686-00	FAN GEAR	1
8	746-0761-00	WASHER	4
9	750-3342-00	SPRING	1
10	341-1704-00	ROLLER (LEFT)	1
11	750-3327-01	SPRING	2
12	335-5848-00	SPRING HOLDER	2
13	347-5919-10	SURGE PROTECT	1
14	335-5849-00	CONNECTOR COVER	1
15	290-7676-10	LABEL	1
16	320-0562-00	DUSTPROOF COVER	1
17	347-5941-10	HEAT PROTECT	1
18	345-8265-11	CUSHION	2
19	370-5776-00	INNER ESCUTCHEON	1
20	335-5846-00	ILLUMI PLATE	1
21	347-5923-10	DOUBLE FACE	1
22	347-5922-10	COVER FILM	1
23	613-0685-00	GEAR	1
24	613-0687-00	GEAR DAMPER	1
25	750-3341-10	SPRING	1
26	335-5847-00	HOOK	1
27	738-1722-17	PRECISION SCREW	4
28	780-2004-01	SCREW	5
29	750-3343-00	SPRING	1
30	946-0073-00	HOLDER ASSY	1
31	946-0074-01	ARM-L-ASSY	1
32	946-0075-01	ARM-R-ASSY	1
33	880-2080C	TUNER	1
34	009-9006-85	CHOKE	1
35	042-0447-00	ALUMI-ELE-C (16V2200 $\mu$ F)	1
36	013-5102-00	SWITCH	1
37	013-6100-00	RESET SWITCH	1
38	042-0596-00	DOUBLE-LAYER-C (5.5V0.33F)	1
39	051-2025-00	IC (TDA7386)	1
40	074-0986-22	OUTLET SOCKET	1

NO.	PART NO.	DESCRIPTION	QTY
41	074-1194-00	OUTLET SOCKET	1
42	092-9000-41	ANTENNA RECEPTACLE	1
43	101-1143-00	TRANSISTOR (2SB1143)	1
44	102-3420-00	TRANSISTOR (2SC3420)	1
45	305-0276-00	SIDE COVER (L)	1
46	305-0277-00	SIDE COVER (R)	1
47	307-0617-00	REAR COVER	1
48	313-1747-00	HEAT SINK	1
49	313-1745-00	HEAT SINK	1
50	313-1746-00	HEAT SINK	1
51	331-2547-00	IC HOLDER	1
52	331-2549-00	SHIELD CASE	1
53	714-3006-81	MACHINE SCREW (M3X6)	4
54	731-3006-80	TAPTIGHT	3
55	855-5405-00	RCA PIN CORD	1
56	347-5423-00	PROTECTION TAPE	1
57	039-1402-00	MAIN PWB (WITHOUT COMPONENT)	1
58	001-7011-02	DIODE (CL-150YG-CD)	1
59	074-1198-18	OUTLET SOCKET	1
60	039-0887-00	ISO PWB (WITHOUT COMPONENT)	1
61	074-1115-00	OUTLET SOCKET	1
62	060-0057-57	AUTO FUSE (15A)	1
63	347-6010-10	SPACER	1
64	286-9112-00 286-9113-00	SETPLATE (ARX8570Rz) SETPLATE (ARX8570RWz)	1
65	290-7672-20	LABEL	1
66	303-0473-00	UPPER COVER	1
67	304-0462-00	LOWER COVER	1
68	331-2546-00	MECHANISM BRACKET	1
69	335-6020-00	CONNECTOR COVER	1
70	345-3799-00	RUBBER CAP	6
71	347-5913-10	SPACER	1
72	347-5918-10	INSULATOR	1
73	714-2605-81	MACHINE SCREW (M2.6X5)	4
74	731-3006-80	TAPTIGHT	7
75	780-2004-01	SCREW	2
76	816-2478-80	FLAT WIRE	1
77	930-0798-82	TAPE-MECHA-MODULE	1
78	341-1710-10	ROLLER (RIGHT)	1

# Tape mechanism section



NO.	PART NO.	DESCRIPTION	Q'TY
1	611-0091-03	FLYWHEEL	2
2	746-0724-00	WASHER	6
3	746-0624-00	WASHER	2
4	602-0118-00	BELT	1
5	604-0046-00	TENSION PULLEY	1
6	960-4450-00	BOTTOM SUB ASSY	1
6-1	099-9926-01	BOTTOM PWB (WITHOUT COMPONENT)	1
6-2	746-0767-00	WASHER	2
7	613-0286-02	FF/REW GEAR	2
8	960-4262-03	FF/REW PLATE ASSY	1
9	960-4430-00	REEL ASSY F	1
10	960-4431-00	REEL ASSY R	1
11	750-2949-00	SLIDE SPRING	2
12	631-1993-01	SLIDE BUSH	2
13	746-0761-00	WASHER	2
14	960-4266-20	MODE PLATE ASSY	1
15	960-4282-06	DETECT SUB ASSY	1
16	613-0662-00	IDLER GEAR	2
17	960-4264-03	IDOLER PLATE ASSY R	1
18	750-3017-02	IDLER SPRING	1
19	613-0337-00	POWER GEAR	1
20	613-0289-01	GEAR A	1
21	960-4294-22	DECK PLATE ASSY	1
22	960-4301-02	PLAY LINK ASSY	1
23	630-2598-05	EJECT LINK	1
24	960-4263-03	IDOLER PLATE ASSY F	1
25	630-2597-01	CHANGE LINK	1

NO.	PART NO.	DESCRIPTION	Q'TY
26	960-4261-20	HEAD PLATE ASSY	1
27	716-0833-10	AZIMUTH SCREW	2
28	630-2600-01	ADJUST LINK	1
29	746-0762-00	WASHER	1
30	610-0342-01	HADE PLATE ROLLER	1
31	960-4270-05	ROLLER ASSY R	1
32	011-0328-00	HEAD	1
33	750-2946-02	PINCH SPRING	1
34	960-4269-05	ROLLER ASSY F	1
35	SMA-131-100	POWER MOTOR ASSY	1
36	630-2601-02	MOTOR PLATE	1
37	613-0288-01	HELICAL GEAR	1
38	SMA-130-100	MAIN MOTOR ASSY	1
39	606-0093-82	PACK GUIDE	1
40	630-2626-05	PWB FRAME	1
41	631-1992-02	PACK STOPPER	1
42	630-2642-01	GUIDE ARM	1
43	610-0343-00	GUIDE A ROLLER	1
44	750-2947-04	EJECT PLATE SPRING	1
45	960-4389-20	EJECT SUB ASSY	1
46	039-0053-00	SIDE PWB (WITHOUT COMPONENT)	1
47	716-0484-00	SCREW	13
48	HBS-488-100	REAR PWB ASSY (WITH COMPONENT)	1
49	716-0761-01	PWB SCREW	2
50	347-4080-01	INSULATOR	1
51	013-3906-00	SWITCH	1

## ■ ELECTRICAL PARTS LIST

### Main PWB section(B1)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
ANT1	092-9000-41	ANT RECEPT	C102	042-0592-58	16V 10 $\mu$ F	C303	042-0592-59	16V22 $\mu$ F
C1	176-1801-00	18pF CH	C103	042-0592-58	16V 10 $\mu$ F	C304	042-0592-58	16V 10 $\mu$ F
C2	178-1032-78	0.01 $\mu$ F	C104	042-0592-58	16V 10 $\mu$ F	C305	042-0592-58	16V 10 $\mu$ F
C3	178-1032-78	0.01 $\mu$ F	C105	042-0592-58	16V 10 $\mu$ F	C306	042-0592-58	16V 10 $\mu$ F
C4	176-1011-00	100pF CH	C106	042-0592-58	16V 10 $\mu$ F	C307	042-0592-58	16V 10 $\mu$ F
C5	042-0592-73	50V1 $\mu$ F	C107	042-0592-58	16V 10 $\mu$ F	C308	042-0592-58	16V 10 $\mu$ F
C6	178-6822-78	6800pF	C108	042-0592-58	16V 10 $\mu$ F	C309	042-0592-58	16V 10 $\mu$ F
C7	183-4763-31	16V47 $\mu$ F	C109	043-0296-00	0.1 $\mu$ F	C310	176-1201-00	12pF CH
C8	178-1522-78	1500pF	C110	043-0296-00	0.1 $\mu$ F	C311	176-1201-00	12pF CH
C9	178-1032-78	0.01 $\mu$ F	C111	043-0296-00	0.1 $\mu$ F	C312	176-1201-00	12pF CH
C10	178-4732-78	0.047 $\mu$ F	C112	043-0296-00	0.1 $\mu$ F	C313	176-1201-00	12pF CH
C11	178-1832-78	0.018 $\mu$ F	C113	183-1063-31	16V10 $\mu$ F	C314	042-0592-58	16V 10 $\mu$ F
C12	178-1832-78	0.018 $\mu$ F	C114	178-4742-78	0.47 $\mu$ F	C315	042-0592-58	16V 10 $\mu$ F
C14	178-1042-78	0.1 $\mu$ F	C115	183-4763-31	16V47 $\mu$ F	C316	042-0592-58	16V 10 $\mu$ F
C15	042-0592-73	50V1 $\mu$ F	C116	042-0592-66	35V 4.7 $\mu$ F	C317	042-0592-58	16V 10 $\mu$ F
C16	178-8222-78	8200pF	C117	176-1011-00	100pF CH	C318	042-0592-58	16V 10 $\mu$ F
C17	178-1222-78	1200pF	C118	176-1011-00	100pF CH	C319	042-0592-58	16V 10 $\mu$ F
C18	176-1011-00	100pF CH	C119	176-1011-00	100pF CH	C320	042-0592-58	16V 10 $\mu$ F
C19	176-1011-00	100pF CH	C120	176-1011-00	100pF CH	C321	042-0592-74	50V 2.2 $\mu$ F
C21	176-1011-00	100pF CH	C201	042-0447-00	16V2200 $\mu$ F	C322	176-1011-00	100pF CH
C22	176-1011-00	100pF CH	C202	172-1041-11	0.1 $\mu$ F	C323	176-1011-00	100pF CH
C24	176-1501-00	15pF CH	C203	183-1073-21	10V100 $\mu$ F	C324	176-1011-00	100pF CH
C25	176-1801-00	18pF CH	C204	183-2263-32	16V22 $\mu$ F	C325	176-1011-00	100pF CH
C30	183-1073-12	6.3V100 $\mu$ F	C205	178-4732-78	0.047 $\mu$ F	C401	042-0592-50	6.3V 22 $\mu$ F
C31	178-1032-78	0.01 $\mu$ F	C206	042-0452-02	16V100 $\mu$ F	C402	042-0592-50	6.3V 22 $\mu$ F
C35	178-1032-78	0.01 $\mu$ F	C207	183-4763-31	16V47 $\mu$ F	C403	042-0592-58	16V 10 $\mu$ F
C36	178-2212-78	220pF	C208	178-2232-78	0.022 $\mu$ F	C404	042-0592-58	16V 10 $\mu$ F
C37	042-0592-61	16V47 $\mu$ F	C209	172-4731-11	0.047 $\mu$ F	C408	042-0592-58	16V 10 $\mu$ F
C38	178-1022-78	1000pF	C210	183-1053-61	50V1 $\mu$ F	C417	042-0592-58	16V 10 $\mu$ F
C39	178-4732-78	0.047 $\mu$ F	C301	042-0592-58	16V 10 $\mu$ F	C418	042-0592-58	16V 10 $\mu$ F
C101	042-0592-58	16V 10 $\mu$ F	C302	042-0592-58	16V 10 $\mu$ F	C419	042-0592-58	16V 10 $\mu$ F

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C420	042-0592-58	16V 10 $\mu$ F	C904	176-1011-00	100pF CH	Q205	100-1162-00	2SA1162
C421	042-0592-61	16V47 $\mu$ F	C905	178-1032-78	0.01 $\mu$ F	Q206	125-2004-03	RN1403
C422	042-0592-61	16V47 $\mu$ F	C906	183-1063-31	16V10 $\mu$ F	Q207	101-1143-00	2SB1143
C423	183-1073-21	10V100 $\mu$ F	C911	176-1011-00	100pF CH	Q208	103-1858-00	2SD1858
C424	178-1522-78	1500pF	C912	176-1011-00	100pF CH	Q209	100-1162-00	2SA1162
C425	183-1073-21	10V100 $\mu$ F	D1	001-0516-00	MA111	Q210	102-2712-00	2SC2712
C426	178-1522-78	1500pF	D101	001-2403-90	M1F60	Q211	100-1416-00	2SA1416
C427	183-1073-21	10V100 $\mu$ F	D102	001-2403-90	M1F60	Q212	125-2004-03	RN1403
C428	178-1522-78	1500pF	D103	001-2403-90	M1F60	Q301	103-1306-00	2SD1306
C429	183-1073-21	10V100 $\mu$ F	D104	001-2403-90	M1F60	Q302	103-1306-00	2SD1306
C430	178-1522-78	1500pF	D105	001-2403-90	M1F60	Q303	103-1306-00	2SD1306
C431	042-0592-58	16V 10 $\mu$ F	D106	001-2403-90	M1F60	Q304	103-1306-00	2SD1306
C432	042-0592-58	16V 10 $\mu$ F	D107	001-2403-90	M1F60	Q305	125-2004-06	RN1406
C433	042-0592-58	16V 10 $\mu$ F	D108	001-2403-90	M1F60	Q306	125-0002-06	RN2406
C434	042-0592-58	16V 10 $\mu$ F	D201	001-0592-00	RM4Z	Q308	125-2004-03	RN1403
C435	184-2273-22	10V220 $\mu$ F	D202	001-0503-46	HZS9B2L	Q401	125-2030-00	RN1410
C436	042-0592-50	6.3V 22 $\mu$ F	D203	001-0377-11	MA4030M	Q402	125-2030-00	RN1410
C437	042-0592-50	6.3V 22 $\mu$ F	D204	001-0466-00	S5688B	Q403	125-2030-00	RN1410
C442	178-4732-78	0.047 $\mu$ F	D205	001-0466-00	S5688B	Q404	125-2030-00	RN1410
C443	176-1011-00	100pF CH	D206	001-0423-31	MA4180	Q405	125-2030-00	RN1410
C444	176-1011-00	100pF CH	D207	001-0516-00	MA111	Q406	125-2030-00	RN1410
C501	042-0592-74	50V 2.2 $\mu$ F	D208	001-0466-01	S5688G	Q408	125-0002-02	RN2402
C502	042-0592-71	50V0.33 $\mu$ F	D209	001-7011-02	CL-150YG-CD	Q409	125-0002-02	RN2402
C503	042-0592-74	50V 2.2 $\mu$ F	D301	001-2406-90	1PS226	Q410	125-0002-02	RN2402
C504	178-1822-78	1800pF	D401	001-2406-90	1PS226	Q412	125-2004-06	RN1406
C505	178-1822-78	1800pF	D402	001-2405-90	1PS184	Q413	102-2712-00	2SC2712
C508	042-0592-58	16V 10 $\mu$ F	D403	001-0528-44	MA8082-M	Q414	125-0002-06	RN2406
C509	042-0592-58	16V 10 $\mu$ F	D601	001-0659-00	SLP-181B-51	Q415	103-1306-00	2SD1306
C510	178-4712-78	470pF	D603	001-0516-00	MA111	Q416	103-1306-00	2SD1306
C511	178-4712-78	470pF	D604	001-0516-00	MA111	Q417	103-1306-00	2SD1306
C512	042-0592-74	50V 2.2 $\mu$ F	D605	001-0516-00	MA111	Q418	103-1306-00	2SD1306
C515	042-0592-73	50V1 $\mu$ F	D606	001-0516-00	MA111	Q419	103-1306-00	2SD1306
C516	042-0592-66	35V 4.7 $\mu$ F	D607	001-0589-00	1SS145	Q420	103-1306-00	2SD1306
C517	042-0592-66	35V 4.7 $\mu$ F	D608	001-0516-00	MA111	Q601	125-2004-03	RN1403
C518	042-0592-66	35V 4.7 $\mu$ F	D609	001-0528-47	MA8091-M	Q602	125-2004-06	RN1406
C519	042-0592-66	35V 4.7 $\mu$ F	D801	001-2406-90	1PS226	Q603	100-1298-00	2SA1298
C520	042-0592-66	35V 4.7 $\mu$ F	D901	001-0516-00	MA111	Q604	125-2004-03	RN1403
C521	042-0592-66	35V 4.7 $\mu$ F	D903	001-0503-47	HZS9B3L	Q605	100-1298-00	2SA1298
C522	042-0592-73	50V1 $\mu$ F	IC1	051-6201-00	LC72146M	Q606	125-2004-03	RN1403
C524	178-3322-78	3300pF	IC101	051-3029-90	MC33078D	Q607	100-1162-00	2SA1162
C525	178-1542-78	0.15 $\mu$ F	IC102	051-3029-90	MC33078D	Q608	102-2712-00	2SC2712
C526	178-5632-78	0.056 $\mu$ F	IC103	051-2025-00	TDA7386	Q609	100-1162-00	2SA1162
C527	178-5622-78	5600pF	IC201	051-3250-00	LE60CZ	Q801	125-2004-02	RN1402
C528	178-3322-78	3300pF	IC301	051-3030-90	MC33079D	Q902	103-1802-60	2SD1802FA-R.S.T
C529	178-1542-78	0.15 $\mu$ F	IC302	051-7247-08	74HC4066DT	Q903	125-0002-02	RN2402
C530	178-5632-78	0.056 $\mu$ F	IC303	051-3029-90	MC33078D	Q904	125-2004-02	RN1402
C531	178-5622-78	5600pF	IC304	051-3028-90	MC4558ID	Q906	101-1240-00	2SB1240
C532	042-0592-61	16V47 $\mu$ F	IC401	051-3029-90	MC33078D	Q907	125-2004-06	RN1406
C533	184-1073-22	10V100 $\mu$ F	IC404	051-3028-90	MC4558ID	R1	117-1831-10	1/10W 18k $\Omega$
C601	176-1801-00	18pF CH	IC407	051-5810-00	TDA8574T	R2	117-3331-10	1/10W 33k $\Omega$
C602	176-1801-00	18pF CH	IC408	051-5810-00	TDA8574T	R3	117-1021-10	1/10W 1k $\Omega$
C603	178-1032-78	0.01 $\mu$ F	IC501	051-5015-90	TEA6320T	R4	117-1021-10	1/10W 1k $\Omega$
C604	042-0577-00	6.3V100 $\mu$ F	IC504	051-3029-90	MC33078D	R5	117-5631-10	1/10W 56k $\Omega$
C606	042-0592-58	16V 10 $\mu$ F	IC505	051-3028-90	MC4558ID	R6	117-1231-10	1/10W 12k $\Omega$
C607	042-0596-00	5.5V0.33F	IC601	052-3347-00	M30620MC-336GP	R7	117-8221-10	1/10W 8.2k $\Omega$
C608	183-1063-31	16V10 $\mu$ F	IC602	051-6600-38	CA0008AM	R8	117-1021-10	1/10W 1k $\Omega$
C609	178-1032-78	0.01 $\mu$ F	IC603	051-5415-08	MC33464N-27ATR	R9	117-2241-10	1/10W 220k $\Omega$
C610	178-1042-78	0.1 $\mu$ F	IC604	051-5416-08	PCF1252-2T	R10	117-1031-10	1/10W 10k $\Omega$
C611	178-1042-78	0.1 $\mu$ F	IC801	051-3028-90	MC4558ID	R11	117-2231-10	1/10W 22k $\Omega$
C612	178-4732-78	0.047 $\mu$ F	IC802	051-1819-50	TDA7479D	R12	117-4721-10	1/10W 4.7k $\Omega$
C613	178-1032-78	0.01 $\mu$ F	J601	074-1194-00	13P CE-NET	R13	117-1031-10	1/10W 10k $\Omega$
C614	178-4732-78	0.047 $\mu$ F	J602	074-1198-18	18P	R14	117-1031-10	1/10W 10k $\Omega$
C615	042-0592-66	35V 4.7 $\mu$ F	J901	074-0986-22	22P	R15	032-0104-73	1/4W 330 $\Omega$
C617	176-1011-00	100pF CH	L1	010-4007-00	30 $\mu$ H	R16	117-1031-10	1/10W 10k $\Omega$
C618	178-1022-78	1000pF	L2	010-2230-88	220 $\mu$ H	R17	117-1021-10	1/10W 1k $\Omega$
C619	176-1011-00	100pF CH	L201	010-2230-76	22 $\mu$ H	R18	117-2221-10	1/10W 2.2k $\Omega$
C801	178-2232-78	0.022 $\mu$ F	L401	010-2230-88	220 $\mu$ H	R19	117-1231-10	1/10W 12k $\Omega$
C802	178-5612-78	560pF	L801	010-2230-88	220 $\mu$ H	R20	032-0104-65	1/4W 270 $\Omega$
C803	178-5612-78	560pF	L901	010-6003-02	10 $\mu$ H	R21	117-1021-10	1/10W 1k $\Omega$
C804	178-2232-78	0.022 $\mu$ F	Q1	103-1306-00	2SD1306	R22	117-1021-10	1/10W 1k $\Omega$
C805	178-1032-78	0.01 $\mu$ F	Q2	125-0002-03	RN2403	R23	117-1521-10	1/10W 1.5k $\Omega$
C806	183-2253-62	50V2.2 $\mu$ F	Q3	100-1162-00	2SA1162	R24	117-1031-10	1/10W 10k $\Omega$
C807	178-3312-78	330pF	Q4	100-1298-00	2SA1298	R25	117-1031-10	1/10W 10k $\Omega$
C808	183-4763-12	6.3V47 $\mu$ F	Q6	108-0669-00	2SK669	R26	117-1521-10	1/10W 1.5k $\Omega$
C809	178-1042-78	0.1 $\mu$ F	Q201	102-3420-00	2SC3420	R27	117-8211-10	1/10W 820 $\Omega$
C810	176-8201-00	82pF CH	Q202	108-0241-50	2SK241Y.GR	R28	117-1001-10	1/10W 10 $\Omega$
C811	176-4701-00	47pF CH	Q203	101-1237-50	2SB1237QR	R101	117-3311-10	1/10W 330 $\Omega$
C812	176-1007-00	10pF CH	Q204	102-2712-00	2SC2712	R102	117-2231-10	1/10W 22k $\Omega$

ARX8570Rz  
ARX8570RWz

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R103	117-2231-10	1/10W 22kΩ	R331	117-1011-10	1/10W 100Ω	R505	117-4721-10	1/10W 4.7kΩ
R104	117-3311-10	1/10W 330Ω	R332	117-1011-10	1/10W 100Ω	R506	117-4721-10	1/10W 4.7kΩ
R105	117-3311-10	1/10W 330Ω	R333	117-1011-10	1/10W 100Ω	R507	117-2231-10	1/10W 22kΩ
R106	117-2231-10	1/10W 22kΩ	R334	117-4731-10	1/10W 47kΩ	R508	117-2231-10	1/10W 22kΩ
R107	117-2231-10	1/10W 22kΩ	R335	032-0092-20	1/10W 2.7kΩ ±1%	R509	117-3021-10	1/10W 3kΩ
R108	117-3311-10	1/10W 330Ω	R336	032-0092-20	1/10W 2.7kΩ ±1%	R510	117-3021-10	1/10W 3kΩ
R109	032-0092-90	1/10W 10kΩ ±1%	R337	032-0092-20	1/10W 2.7kΩ ±1%	R511	117-4721-10	1/10W 4.7kΩ
R110	032-0092-79	1/10W 5.6kΩ ±1%	R338	032-0092-20	1/10W 2.7kΩ ±1%	R512	117-4721-10	1/10W 4.7kΩ
R111	032-0092-90	1/10W 10kΩ ±1%	R339	032-0092-09	1/10W 47kΩ ±1%	R524	117-1531-10	1/10W 15kΩ
R112	032-0092-79	1/10W 5.6kΩ ±1%	R340	032-0092-09	1/10W 47kΩ ±1%	R525	117-2721-10	1/10W 2.7kΩ
R113	032-0092-90	1/10W 10kΩ ±1%	R341	032-0092-09	1/10W 47kΩ ±1%	R526	117-1531-10	1/10W 15kΩ
R114	032-0092-79	1/10W 5.6kΩ ±1%	R342	032-0092-09	1/10W 47kΩ ±1%	R527	117-2721-10	1/10W 2.7kΩ
R115	032-0092-90	1/10W 10kΩ ±1%	R343	117-1041-10	1/10W 100kΩ	R528	117-4721-10	1/10W 4.7kΩ
R116	032-0092-79	1/10W 5.6kΩ ±1%	R344	117-1041-10	1/10W 100kΩ	R529	117-4721-10	1/10W 4.7kΩ
R117	032-0092-90	1/10W 10kΩ ±1%	R350	117-3331-10	1/10W 33kΩ	R601	117-4721-10	1/10W 4.7kΩ
R118	032-0092-79	1/10W 5.6kΩ ±1%	R351	117-3331-10	1/10W 33kΩ	R603	117-1041-10	1/10W 100kΩ
R119	032-0092-90	1/10W 10kΩ ±1%	R352	117-1041-10	1/10W 100kΩ	R607	117-4711-10	1/10W 470Ω
R120	032-0092-79	1/10W 5.6kΩ ±1%	R353	117-1031-10	1/10W 10kΩ	R608	117-2231-10	1/10W 22kΩ
R121	032-0092-90	1/10W 10kΩ ±1%	R354	117-1031-10	1/10W 10kΩ	R611	117-3321-10	1/10W 3.3kΩ
R122	032-0092-79	1/10W 5.6kΩ ±1%	R355	117-1031-10	1/10W 10kΩ	R612	117-3321-10	1/10W 3.3kΩ
R123	032-0092-90	1/10W 10kΩ ±1%	R357	117-0000-00	1/10W 0Ω JW	R613	032-0104-64	1/4W 68Ω
R124	032-0092-79	1/10W 5.6kΩ ±1%	R358	117-0000-00	1/10W 0Ω JW	R614	117-1031-10	1/10W 10kΩ
R125	117-1231-10	1/10W 12kΩ	R401	117-2721-10	1/10W 2.7kΩ	R615	117-3321-10	1/10W 3.3kΩ
R126	117-8221-10	1/10W 8.2kΩ	R402	117-2721-10	1/10W 2.7kΩ	R616	117-4731-10	1/10W 47kΩ
R201	117-2221-10	1/10W 2.2kΩ	R403	117-1521-10	1/10W 1.5kΩ	R617	117-1031-10	1/10W 10kΩ
R202	117-1031-10	1/10W 10kΩ	R404	117-1521-10	1/10W 1.5kΩ	R618	117-1531-10	1/10W 15kΩ
R203	032-0104-67	1/4W 1.2kΩ	R405	117-3321-10	1/10W 3.3kΩ	R619	117-4741-10	1/10W 470kΩ
R204	111-4700-91	1/4WS 47Ω	R406	117-3321-10	1/10W 3.3kΩ	R620	117-4721-10	1/10W 4.7kΩ
R205	117-1031-10	1/10W 10kΩ	R407	117-8221-10	1/10W 8.2kΩ	R621	117-2231-10	1/10W 22kΩ
R206	117-1031-10	1/10W 10kΩ	R408	117-8221-10	1/10W 8.2kΩ	R622	117-4731-10	1/10W 47kΩ
R207	117-1801-10	1/10W 18Ω	R409	117-2231-10	1/10W 22kΩ	R623	117-4731-10	1/10W 47kΩ
R208	117-6811-10	1/10W 680Ω	R410	117-2231-10	1/10W 22kΩ	R624	117-1031-10	1/10W 10kΩ
R209	032-0104-63	1/4W 1.5Ω	R411	117-1041-10	1/10W 100kΩ	R625	117-5621-10	1/10W 5.6kΩ
R210	032-0104-63	1/4W 1.5Ω	R412	117-1041-10	1/10W 100kΩ	R626	117-1521-10	1/10W 1.5kΩ
R211	032-0104-63	1/4W 1.5Ω	R413	117-1831-10	1/10W 18kΩ	R627	117-3311-10	1/10W 330Ω
R212	032-0104-63	1/4W 1.5Ω	R414	117-1031-10	1/10W 10kΩ	R628	117-1541-10	1/10W 150kΩ
R213	117-1031-10	1/10W 10kΩ	R415	117-1831-10	1/10W 18kΩ	R629	117-4321-10	1/10W 4.3kΩ
R214	117-3321-10	1/10W 3.3kΩ	R416	117-1031-10	1/10W 10kΩ	R630	117-8221-10	1/10W 8.2kΩ
R215	117-3321-10	1/10W 3.3kΩ	R419	117-0000-00	1/10W 0Ω JW	R633	117-1831-10	1/10W 18kΩ
R216	117-2231-10	1/10W 22kΩ	R421	117-0000-00	1/10W 0Ω JW	R634	117-4731-10	1/10W 47kΩ
R217	117-1031-10	1/10W 10kΩ	R427	117-1041-10	1/10W 100kΩ	R635	117-1031-10	1/10W 10kΩ
R218	032-0104-67	1/4W 1.2kΩ	R428	117-1241-10	1/10W 120kΩ	R636	117-1021-10	1/10W 1kΩ
R219	117-2221-10	1/10W 2.2kΩ	R429	117-1021-10	1/10W 1kΩ	R637	117-2241-10	1/10W 220kΩ
R220	117-2221-10	1/10W 2.2kΩ	R430	117-1021-10	1/10W 1kΩ	R801	117-1031-10	1/10W 10kΩ
R221	032-0104-69	1/4W 1.5kΩ	R431	117-1031-10	1/10W 10kΩ	R802	117-1231-10	1/10W 12kΩ
R222	117-6811-10	1/10W 680Ω	R432	117-1021-10	1/10W 1kΩ	R803	117-3321-10	1/10W 3.3kΩ
R223	117-1011-10	1/10W 100Ω	R433	117-2231-10	1/10W 22kΩ	R804	117-2231-10	1/10W 22kΩ
R301	117-2231-10	1/10W 22kΩ	R434	117-1021-10	1/10W 1kΩ	R805	117-1041-10	1/10W 100kΩ
R302	117-2231-10	1/10W 22kΩ	R437	117-0000-00	1/10W 0Ω JW	R806	117-2211-10	1/10W 220Ω
R303	117-1021-10	1/10W 1kΩ	R438	117-0000-00	1/10W 0Ω JW	R807	117-2221-10	1/10W 2.2kΩ
R304	117-1021-10	1/10W 1kΩ	R454	117-2431-10	1/10W 24kΩ	R901	117-0000-00	1/10W 0Ω JW
R305	117-1021-10	1/10W 1kΩ	R455	117-2431-10	1/10W 24kΩ	R902	117-0000-00	1/10W 0Ω JW
R306	117-1021-10	1/10W 1kΩ	R456	117-2431-10	1/10W 24kΩ	R904	117-0000-00	1/10W 0Ω JW
R307	117-1021-10	1/10W 1kΩ	R457	117-2431-10	1/10W 24kΩ	R906	117-1031-10	1/10W 10kΩ
R308	117-1021-10	1/10W 1kΩ	R458	117-3631-10	1/10W 36kΩ	R907	117-2231-10	1/10W 22kΩ
R309	117-1021-10	1/10W 1kΩ	R459	117-3631-10	1/10W 36kΩ	R908	117-1031-10	1/10W 10kΩ
R310	117-1021-10	1/10W 1kΩ	R460	117-3631-10	1/10W 36kΩ	R909	117-1031-10	1/10W 10kΩ
R311	117-1021-10	1/10W 1kΩ	R461	117-3631-10	1/10W 36kΩ	R910	117-1031-10	1/10W 10kΩ
R312	117-2221-10	1/10W 2.2kΩ	R462	117-2231-10	1/10W 22kΩ	R911	117-1031-10	1/10W 10kΩ
R313	117-1021-10	1/10W 1kΩ	R463	117-3311-10	1/10W 330Ω	R912	117-1031-10	1/10W 10kΩ
R314	117-2231-10	1/10W 22kΩ	R464	117-2231-10	1/10W 22kΩ	R914	117-0000-00	1/10W 0Ω JW
R315	117-2721-10	1/10W 2.7kΩ	R465	117-3311-10	1/10W 330Ω	R917	117-0000-00	1/10W 0Ω JW
R316	117-2231-10	1/10W 22kΩ	R466	117-2231-10	1/10W 22kΩ	R921	117-0000-00	1/10W 0Ω JW
R317	117-2721-10	1/10W 2.7kΩ	R467	117-3311-10	1/10W 330Ω	R922	032-0104-65	1/4W 270Ω
R318	117-1031-10	1/10W 10kΩ	R468	117-2231-10	1/10W 22kΩ	R925	117-1031-10	1/10W 10kΩ
R319	117-1031-10	1/10W 10kΩ	R469	117-3311-10	1/10W 330Ω	R926	032-0104-67	1/4W 1.2kΩ
R320	117-1031-10	1/10W 10kΩ	R470	117-1021-10	1/10W 1kΩ	R927	032-0104-67	1/4W 1.2kΩ
R321	117-1031-10	1/10W 10kΩ	R471	117-1021-10	1/10W 1kΩ	R930	117-0000-00	1/10W 0Ω JW
R322	117-1041-10	1/10W 100kΩ	R472	117-2231-10	1/10W 22kΩ	S401	013-5102-00	
R323	117-1041-10	1/10W 100kΩ	R473	117-3311-10	1/10W 330Ω	S606	013-6100-00	SKHLLB
R324	117-1041-10	1/10W 100kΩ	R474	117-2231-10	1/10W 22kΩ	SUP1	060-0122-10	DSP-201M-S00B
R325	117-1041-10	1/10W 100kΩ	R475	117-3311-10	1/10W 330Ω	T201	009-9006-85	CHOKE
R326	117-1041-10	1/10W 100kΩ	R476	117-1021-10	1/10W 1kΩ	X1	061-1066-00	7.2MHz
R327	117-1041-10	1/10W 100kΩ	R501	117-1031-10	1/10W 10kΩ	X601	060-1505-50	10MHz
R328	117-1041-10	1/10W 100kΩ	R502	117-2031-10	1/10W 20kΩ	X602	061-3506-90	10MHz
R329	117-1041-10	1/10W 100kΩ	R503	117-2031-10	1/10W 20kΩ	X801	061-3013-00	4.33MHz
R330	117-1011-10	1/10W 100Ω	R504	117-1031-10	1/10W 10kΩ			



## Switch PWB section(B2)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C701	042-0397-00	16V1 $\mu$ F TAN	Q702	125-2004-06	RN1406	R743	032-0092-80	1/10W 330 $\Omega$ $\pm$ 1%
C702	042-0397-00	16V1 $\mu$ F TAN	Q703	125-2004-06	RN1406	R744	032-0092-80	1/10W 330 $\Omega$ $\pm$ 1%
C703	178-1042-78	0.1 $\mu$ F	Q704	125-2004-06	RN1406	R745	032-0092-80	1/10W 330 $\Omega$ $\pm$ 1%
C704	178-1042-78	0.1 $\mu$ F	Q705	102-2712-51	2SC2712G.L	R746	117-1221-10	1/10W 1.2k $\Omega$
C705	178-1042-78	0.1 $\mu$ F	R701	032-0092-35	1/10W 680k $\Omega$ $\pm$ 1%	R747	117-1221-10	1/10W 1.2k $\Omega$
C706	178-1042-78	0.1 $\mu$ F	R702	032-0092-83	1/10W 910k $\Omega$ $\pm$ 1%	R753	117-0000-00	1/10W 0 $\Omega$ JW
C707	178-1042-78	0.1 $\mu$ F	R703	032-0092-76	1/10W 39k $\Omega$ $\pm$ 1%	R754	117-0000-00	1/10W 0 $\Omega$ JW
C708	042-0416-02	10V10 $\mu$ F	R716	117-2211-10	1/10W 220 $\Omega$	R756	117-1031-10	1/10W 10k $\Omega$
C709	178-1042-78	0.1 $\mu$ F	R717	117-1511-10	1/10W 150 $\Omega$	S701	013-8001-00	JRS0000-1401
C710	042-0416-02	10V10 $\mu$ F	R718	117-1511-10	1/10W 150 $\Omega$	S702	013-6504-00	LS9J2M-1YG
C712	178-2232-78	0.022 $\mu$ F	R719	117-4721-10	1/10W 4.7k $\Omega$	S703	013-6504-00	LS9J2M-1YG
C713	178-2232-78	0.022 $\mu$ F	R720	117-4721-10	1/10W 4.7k $\Omega$	S704	013-6504-00	LS9J2M-1YG
CCT701	050-0122-07	100 $\Omega$ $\times$ 4	R721	117-1011-10	1/10W 100 $\Omega$	S705	013-6504-00	LS9J2M-1YG
CCT702	050-0122-07	100 $\Omega$ $\times$ 4	R723	117-1041-10	1/10W 100k $\Omega$	S706	013-6504-00	LS9J2M-1YG
CCT703	050-0122-00	10k $\Omega$ $\times$ 4 J	R724	117-3921-10	1/10W 3.9k $\Omega$	S707	013-6504-00	LS9J2M-1YG
D701	001-0516-00	MA111	R726	117-1221-10	1/10W 1.2k $\Omega$	S708	013-6504-00	LS9J2M-1YG
D702	001-0516-00	MA111	R727	117-1221-10	1/10W 1.2k $\Omega$	S709	013-6504-00	LS9J2M-1YG
D703	001-0516-00	MA111	R728	117-1521-10	1/10W 1.5k $\Omega$	S710	013-6504-00	LS9J2M-1YG
D704	001-0516-00	MA111	R729	117-1521-10	1/10W 1.5k $\Omega$	S711	013-6504-00	LS9J2M-1YG
D705	001-0516-00	MA111	R730	117-1521-10	1/10W 1.5k $\Omega$	S712	013-6504-00	LS9J2M-1YG
D706	001-0516-00	MA111	R731	117-1521-10	1/10W 1.5k $\Omega$	S713	013-6504-00	LS9J2M-1YG
D707	001-7039-00	NSCM310A	R732	117-1221-10	1/10W 1.2k $\Omega$	S714	013-6504-00	LS9J2M-1YG
D727	001-7030-00	NSPB310A	R733	117-1221-10	1/10W 1.2k $\Omega$	S715	013-6504-00	LS9J2M-1YG
D728	001-7030-00	NSPB310A	R734	117-1221-10	1/10W 1.2k $\Omega$	S716	013-6504-00	LS9J2M-1YG
D729	001-7030-00	NSPB310A	R735	117-1221-10	1/10W 1.2k $\Omega$	S717	013-6504-00	LS9J2M-1YG
D730	001-7011-02	CL-150YG-CD	R736	117-1521-10	1/10W 1.5k $\Omega$	S718	013-6504-00	LS9J2M-1YG
IC701	051-6018-00	SED1526FEA	R737	117-1521-10	1/10W 1.5k $\Omega$	S719	013-6302-50	SKQMAL
IC702	052-7040-00	M30622MC-193GP	R738	117-1521-10	1/10W 1.5k $\Omega$	S720	013-6302-50	SKQMAL
IC703	051-9400-08	M93C46-WMN6T	R739	117-1521-10	1/10W 1.5k $\Omega$	S721	013-6504-00	LS9J2M-1YG
IR701	060-4008-00	RS171	R740	032-0092-80	1/10W 330 $\Omega$ $\pm$ 1%	S722	013-6504-00	LS9J2M-1YG
P701	076-0535-01	15P	R741	032-0092-80	1/10W 330 $\Omega$ $\pm$ 1%	TH701	002-0216-07	DTN-T203S223KS
Q701	060-4011-00	CPT-182S-C	R742	032-0092-80	1/10W 330 $\Omega$ $\pm$ 1%	X701	060-1505-50	10MHz

## DCP PWB section(B3)

REF No.	PART No.	DESCRIPTION
J801	074-1145-01	15P

## ISO PWB section(B4)

REF No.	PART No.	DESCRIPTION
J201	074-1115-00	OUTLET SOCKET

## Tape mechanism Side PWB section(B5)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C1	175-3311-00	330pF CH	C13	183-4743-61	50V0.47 $\mu$ F	R7	117-3341-10	1/10W 330k $\Omega$
C2	175-3311-00	330pF CH	C14	183-2263-31	16V22 $\mu$ F	R8	117-1131-10	1/10W 11k $\Omega$
C3	175-3311-00	330pF CH	C15	183-4753-51	35V4.7 $\mu$ F	R9	117-1531-10	1/10W 15k $\Omega$
C4	175-3311-00	330pF CH	C16	183-4753-51	35V4.7 $\mu$ F	R10	117-1531-10	1/10W 15k $\Omega$
C5	183-4763-11	6.3V47 $\mu$ F	IC1	051-1546-10	BA3430S	R11	117-1131-10	1/10W 11k $\Omega$
C6	042-0552-02	10V68 $\mu$ F	J1	074-0881-08	8P	R12	117-3341-10	1/10W 330k $\Omega$
C7	042-0552-02	10V68 $\mu$ F	R1	111-1241-91	1/4WS 120k $\Omega$	R13	117-1811-10	1/10W 180 $\Omega$
C8	173-1231-10	0.012 $\mu$ F J	R2	111-1241-91	1/4WS 120k $\Omega$	R14	117-8211-10	1/10W 820 $\Omega$
C9	173-1231-10	0.012 $\mu$ F J	R3	111-1241-91	1/4WS 120k $\Omega$	R15	116-2231-10	1/8W 22k $\Omega$
C10	183-4753-51	35V4.7 $\mu$ F	R4	111-1241-91	1/4WS 120k $\Omega$	R16	117-1031-10	1/10W 10k $\Omega$
C11	183-1043-61	50V0.1 $\mu$ F	R5	116-1011-10	1/8W 100 $\Omega$	R17	117-1031-10	1/10W 10k $\Omega$
C12	175-5611-00	560pF CH	R6	116-1011-10	1/8W 100 $\Omega$			

## Tape mechanism Rear PWB section(B6)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C102	178-1042-78	0.1 $\mu$ F	C114	043-0296-52	0.068 $\mu$ F	R102	117-2721-10	1/10W 2.7k $\Omega$
C103	163-4763-30	16V 47 $\mu$ F	C115	043-0296-52	0.068 $\mu$ F	R103	117-2221-10	1/10W 2.2k $\Omega$
C107	163-1053-60	50V 1 $\mu$ F	C116	163-4763-30	16V47 $\mu$ F	R104	117-2721-10	1/10W 2.7k $\Omega$
C108	163-1053-60	50V 1 $\mu$ F	IC101	051-5203-00	IC CXA2502M	R106	117-1031-10	1/10W 10k $\Omega$
C109	163-4763-30	16V 47 $\mu$ F	IC102	051-1014-05	TA7291F	R107	116-2711-10	1/8WS 270 $\Omega$
C110	163-4763-30	16V 47 $\mu$ F	P101	076-0353-08	8P	S101	013-3906-00	STM17
C111	043-0296-50	0.1 $\mu$ F	Q106	125-2004-03	RN1403	VR101	012-4318-06	10k $\Omega$ VR
C112	043-0296-50	0.1 $\mu$ F	Q107	125-2004-03	RN1403	VR102	012-4318-06	10k $\Omega$ VR
C113	163-1063-30	16V 10 $\mu$ F	R101	117-2031-10	1/10W 20k $\Omega$			

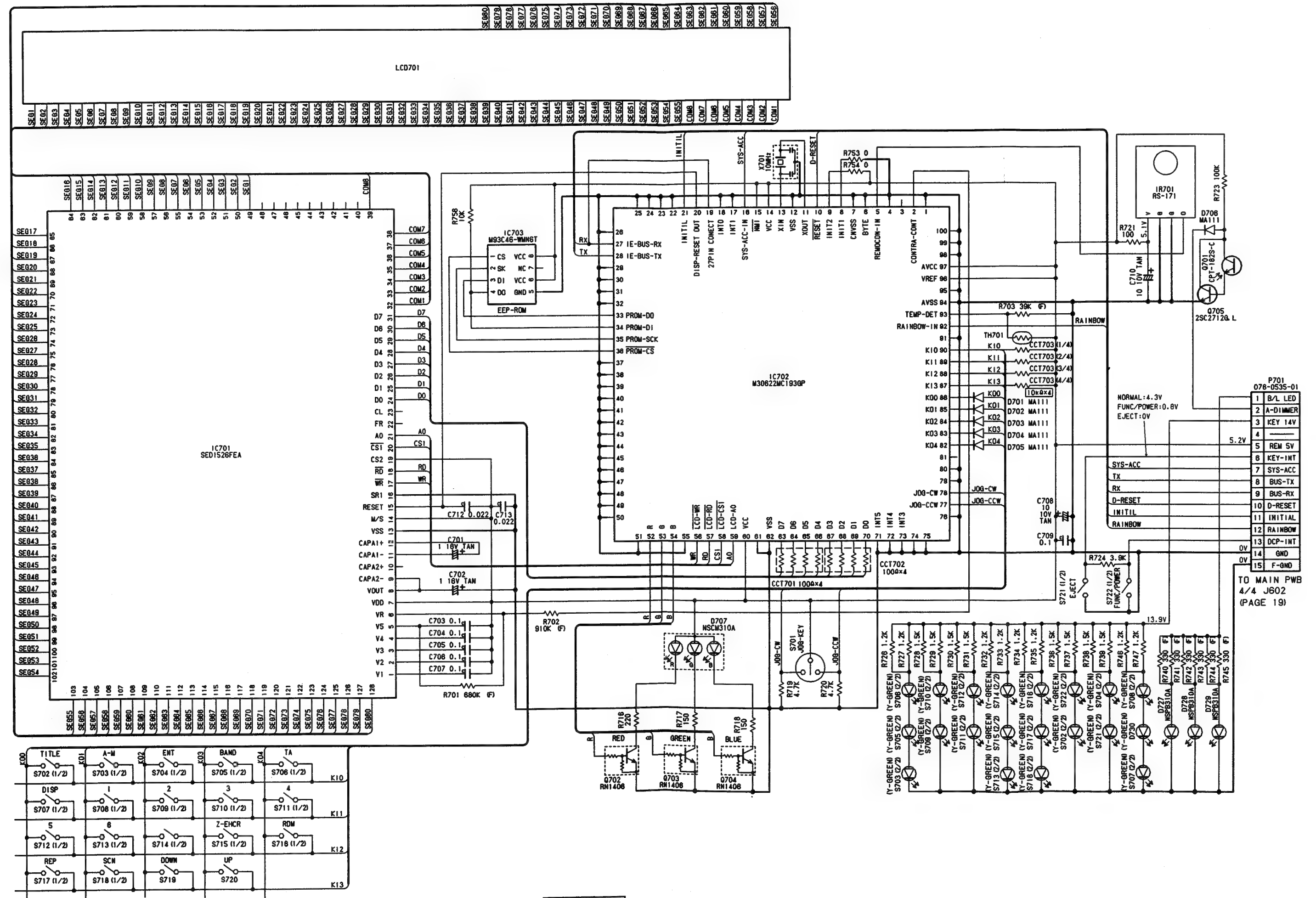
## Tape mechanism Bottom PWB section(B7)

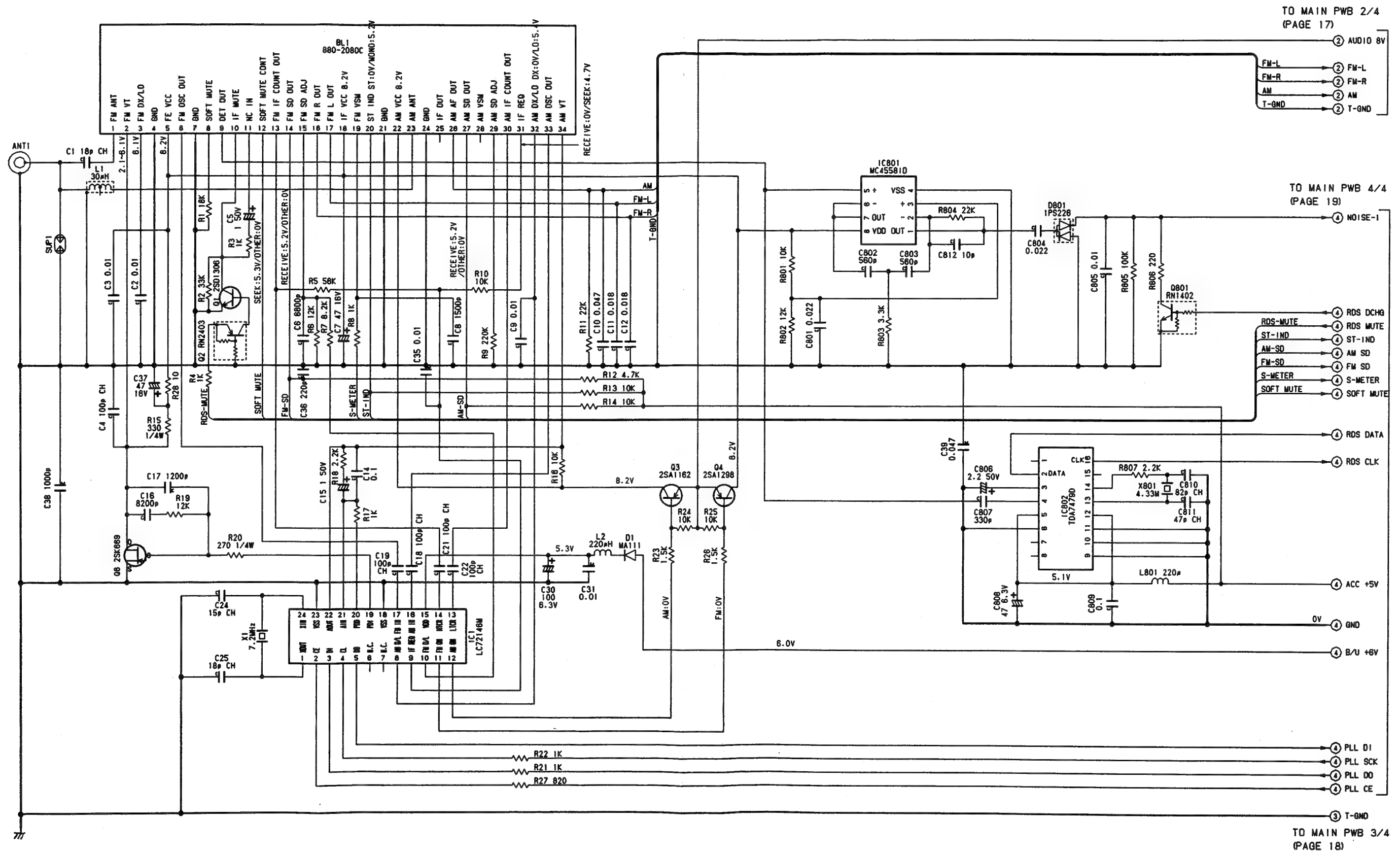
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC2	051-1776-00	NJL5801K-C	S1	013-7300-00	HMW0605	S2	013-3953-01	SPPB32

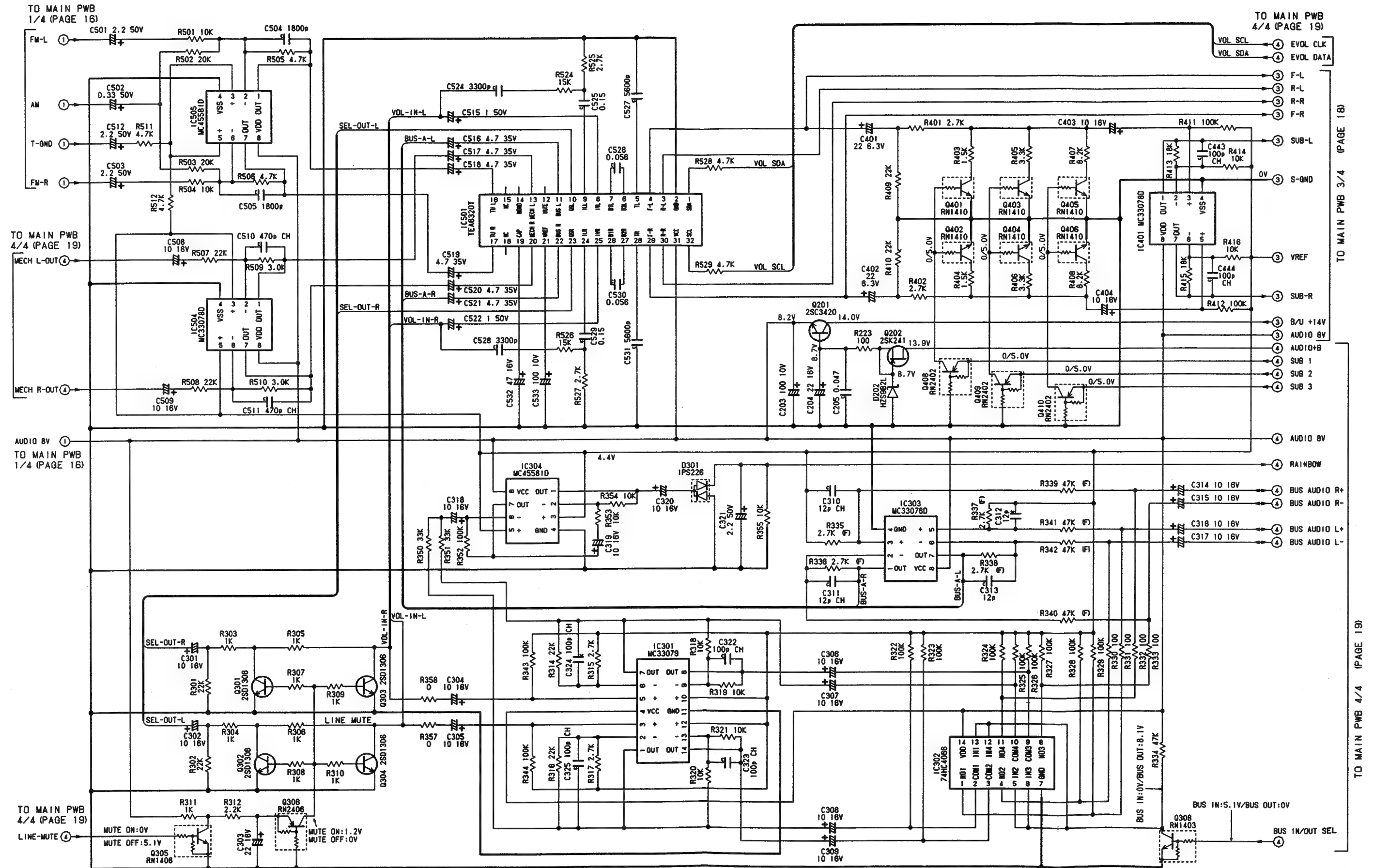


# CIRCUIT DIAGRAM

Switch PWB section(B2)







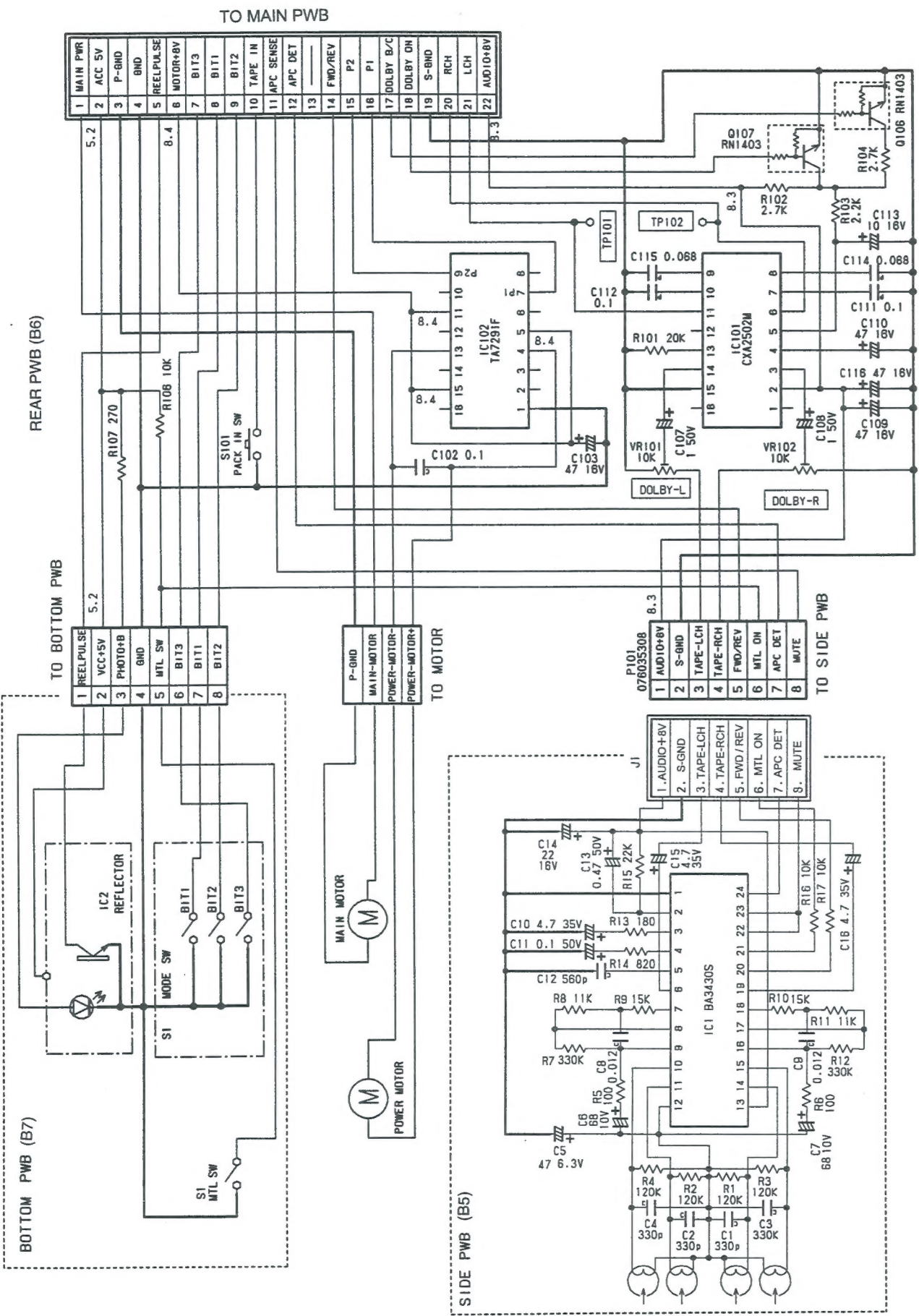






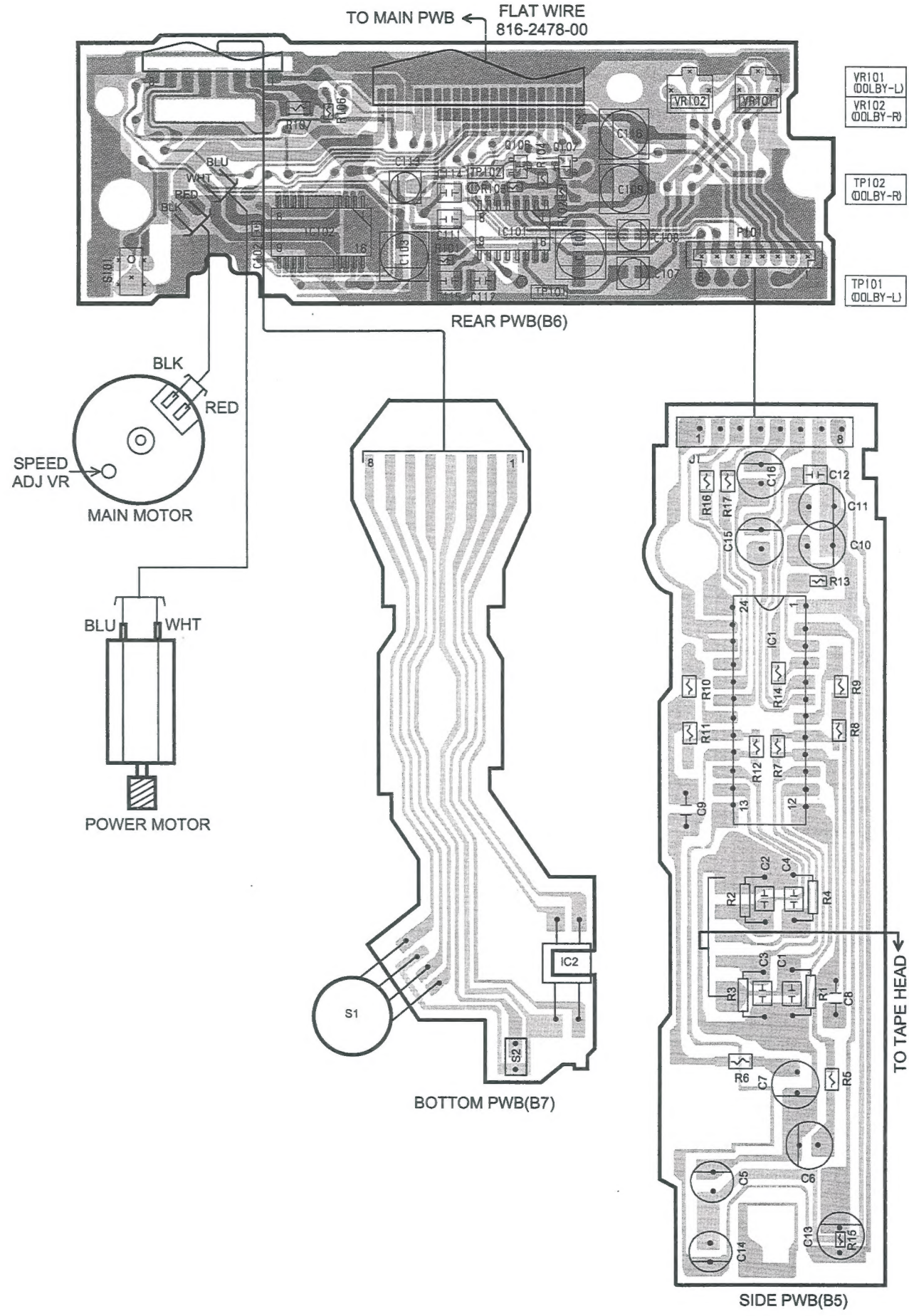
CIRCUIT DIAGRAM

Tape mechanism section(B5,B6,B7)



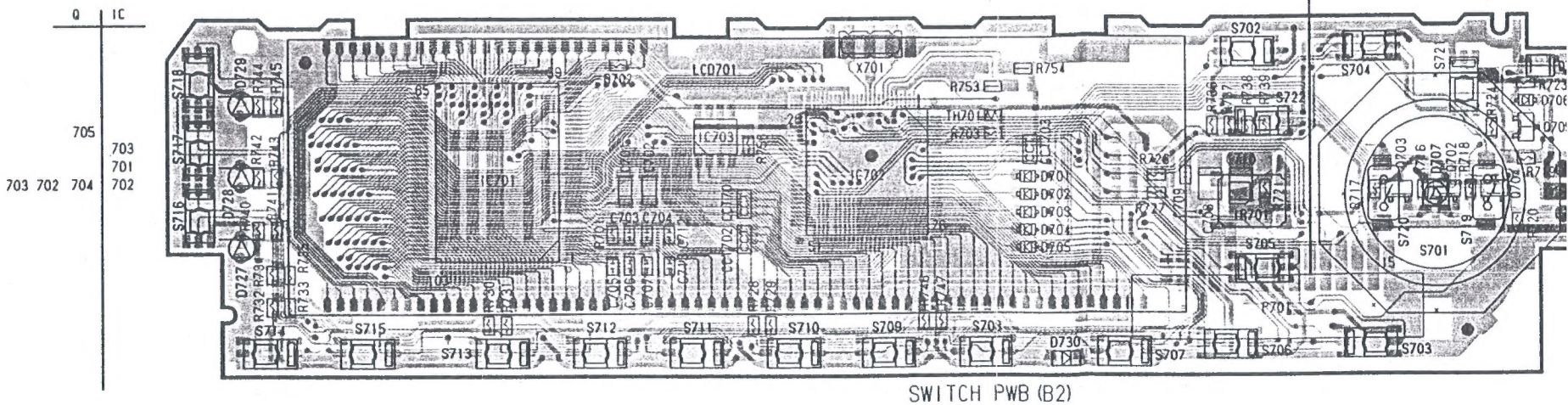
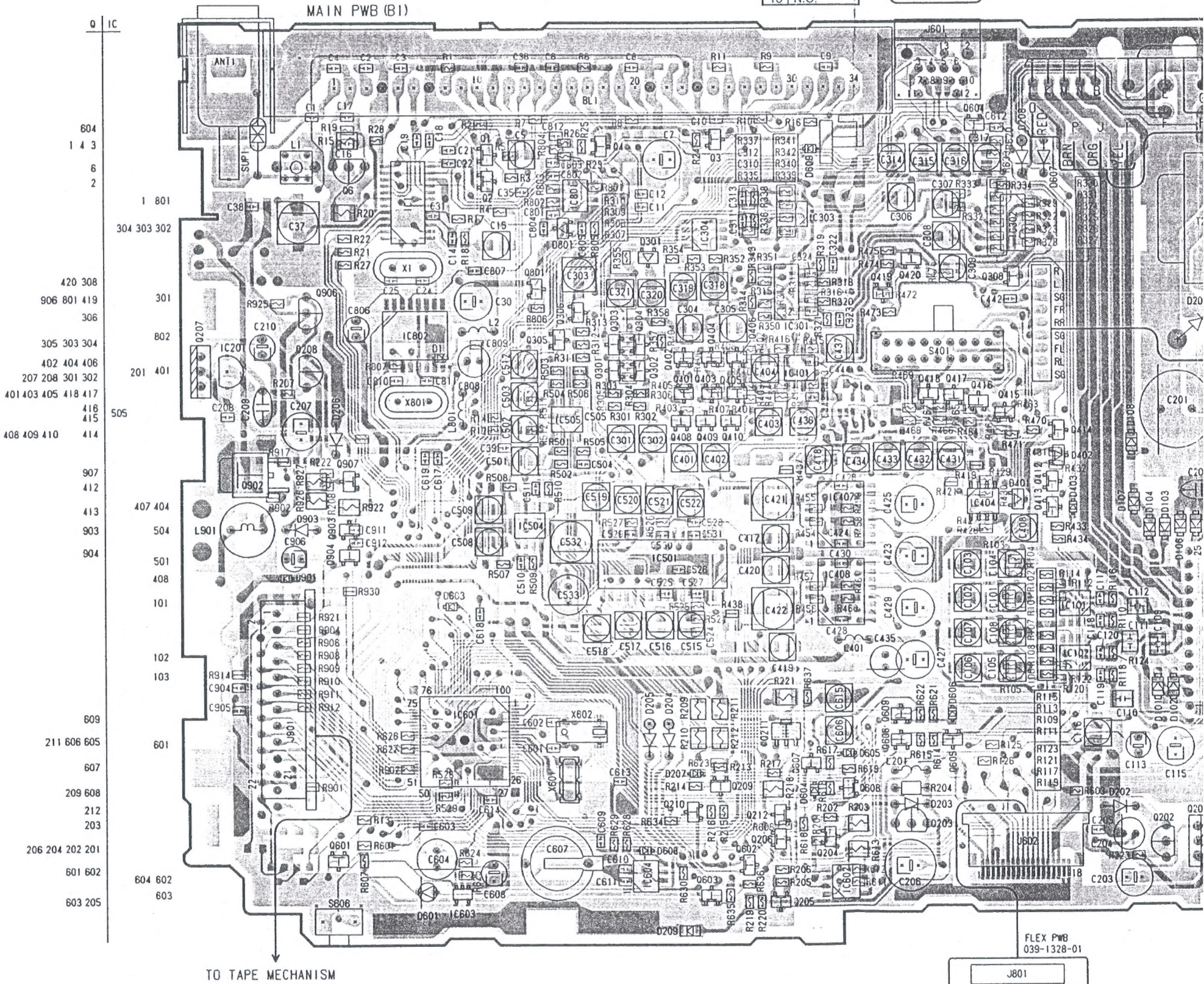
PRINTED WIRING BOARD

Tape mechanism section(B5,B6,B7)

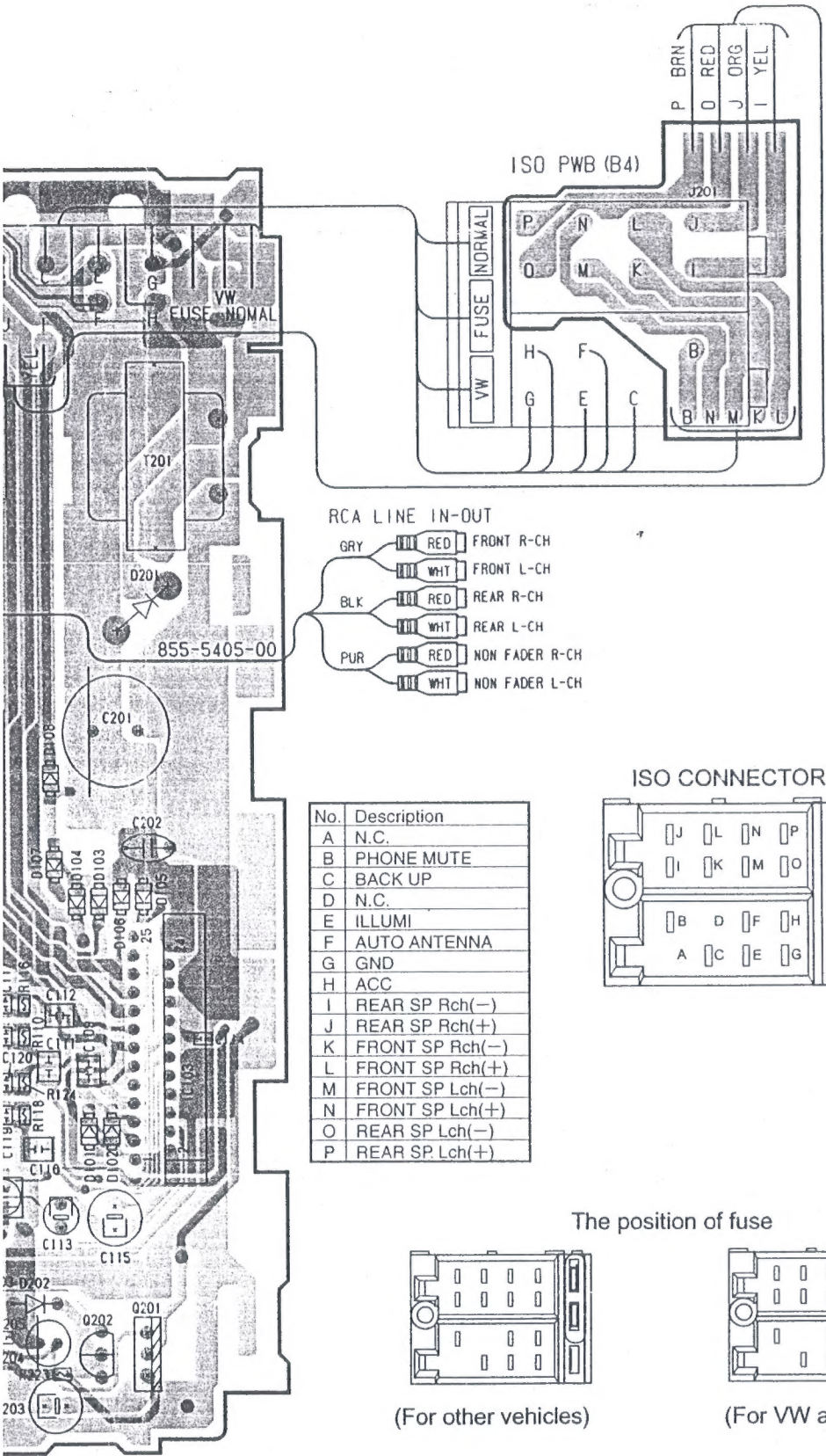




No.	Description
1	GND
2	B/U 14V
3	Lch(+)
4	N.C.
5	N.C.
6	BUS(+)
7	Rch(+)
8	Rch(-)
9	SYS-ACC
10	BUS(-)
11	Lch(-)
12	ILLUMI
13	N.C.







● ● THIS MARK MEANS EARTH PATTERN.

